CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS.

New York, April 25, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Apr.				
25	**Bridges**	**Glendive, Mont**	**P., S. & B. S.**	**3-21**
*26	Bridge, etc.	Watertown, Mass	P. & S.	4-11
27	**Pattern shop**	**Portsmouth, N. H**	**S**	**4- 4**
*30	Steel	Belle Fourche, S. Dak	S. & B. S	4-25
May				
1	Roads, etc.	Ft. Adams, R. I	P. & S	4- 4
1	Water supply mains	North Chicago, Ill	S	4-18
*1	Breakwater	Newport, R. I	S	4-11
4	**Paving**	**Boston, Mass**	**S**	**4-11**
4	**Boiler-room machinery**	**Pensacola, Fla**	**S**	**4-11**
*8	Excavation	Boston, Mass	S. & B. S	4-11
*8	Subways	Washington, D. C	S. & B. S	4-25
*15	Drainage tunnel	Cripple Creek, Colo.	S	4-25
*3	Crematory	Salt Lake City, Utah	S. & B. S	4-25
*6	Sewer	Binghamton, N. Y	P., S. & B. S.	4-18
*15	Bridge work	Washington, D. C	S. & B. S	4-11
*21	Ditches	Mitchell, Neb	P., S. & B. S.	4- 4
June				
*4	Bridge	Pensacola, Fla	P. & S	4-18

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work. Place.	On file. See issue
At once	Light plant, Sullivan, Ind	Apr. 25
At once	Electric equipment, Lafayette, Ind	Apr. 25
Apr. 25	Electrical equipment, New York, N. Y	Apr. 18
Apr. 25	Repairs, New York, N. Y	Apr. 18
Apr. 29	**Heating apparatus, Macon, Ga**	**Mar. 28**
	Advertised, Eng. News, Mar. 28 and Apr. 4.	
Apr. 30	**Conduit system, Seattle, Wash**	**Mar. 21**
Apr. 30	Electrical equipment, Streetsville, Ont	Apr. 25
Apr. 30	Cables, wiring, etc., New York, N. Y	Apr. 25
May 1	Lighting, Natchez, Miss	Mar. 7
	Advertised, Eng. News, Mar. 7 and 14.	
May 4	**Machinery, Pensacola, Fla**	**Apr. 11**
May 10	Light plant, Battleford, Sask	Apr. 25
May 20	**Equipment, Los Angeles, Cal**	**Mar. 28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.	
June 1	Electric fixtures, Fort Wood, N. Y	Apr. 18

BRIDGES.

Apr. 25	**Bridges, Glendive, Mont**	**Mar. 14**
	Advertised, Eng. News, Mar. 14 to Apr. 4.	
Apr. 26	**Bridge, Woonsocket, R. I**	**Apr. 11**
	Advertised, Eng. News, Apr. 11.	
Apr. 26	**Bridges, etc., Watertown, Mass**	**Apr. 18**
	Advertised, Eng. News, April 11 and 18.	
Apr. 27	**Bridge, Jonesboro, Tenn**	**Apr. 18**
Apr. 29	**Bridges, Scranton, Pa**	**Apr. 18**
Apr. 29	**Viaduct, New Orleans, La**	**Feb. 28**
	Advertised, Eng. News, Feb. 28 to Apr. 11.	
Apr. 30	**Bridge flooring, Washington C. H., Ohio**	**Apr. 11**
May 1	**Bridges, Ottawa, Ont.**	**Apr. 18**
May 1	**Improving arch, Veedersburg, Ind**	**Apr. 18**
May 1	**Bridge, Tillamook, Ore**	**Apr. 18**
May 1	**Bridge, Pottsville, Pa**	**Apr. 18**
May 2	Bridge, Buffalo, N. Y	Apr. 25
May 4	**Abutments, Cleveland, Ohio**	**Apr. 18**
May 4	**Viaduct, Milwaukee, Wis**	**Apr. 11**
May 6	**Bridge, Greensburg, Ind**	**Apr. 18**
May 6	Bridge repair, Tipton, Ind	Apr. 25
May 6	Culvert, Leavenworth, Kan	Apr. 25
May 6	Bridges, Elyria, Ohio	Apr. 25
May 7	Bridges, San Andreas, Cal	Apr. 25
May 7	**Bridge, etc., Covington, Ind**	**Apr. 18**
May 7	**Bridge, Princeton, Ind**	**Apr. 18**
May 8	**Bridges, Kokomo, Ind**	**Apr. 18**
May 8	**Bridges, Coshocton, Ohio**	**Apr. 11**
May 10	Bridge, etc., Upper Sandusky, Ohio	Apr. 25
May 10	Bridge, Milwaukee, Wis	Apr. 25
May 12	Substructure, etc., Columbus, Ohio	Apr. 25
May 15	**Bridge work, Washington, D. C**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to May 9.	
June 4	**Bridge, Pensacola, Fla**	**Apr. 18**
	Advertised, Eng. News, Apr. 18.	

BUILDINGS.

Apr. 25	**Public bath, New York, N. Y**	**Apr. 18**
Apr. 27	**Pattern shop, Portsmouth, N. H**	**Apr. 4**
Apr. 29	**Electrical equipment, New York, N. Y**	**Apr. 18**
Apr. 29	**Schools, New York, N. Y**	**Apr. 18**
May 1	**Plans, Milwaukee, Wis**	**Feb. 28**
May 1	**Buildings, North Chicago, Ill**	**Mar. 14**
May 1	Station, Chattanooga, Tenn	Apr. 25
May 1	City Hall, Calgary, Alta	Apr. 25
May 2	**Marble work, Burlington, Vt**	**Apr. 4**
	Advertised, Eng. News, Apr. 4 and 11.	
May 6	**Post-office, Trenton, N. J**	**Apr. 4**
May 6	Heating and ventilation, New York, N. Y	Apr. 25
May 6	Schools, New York, N. Y	Apr. 25
May 7	**Post-office, Lafayette, Ind**	**Apr. 4**
	Advertised, Eng. News, Apr. 4 and 11.	
May 8	**Screening, Fort Oglethorpe, Ga**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to May 2.	
May 9	Building, Salem, Mass	Apr. 25
May 10	Buildings, Jacksonville, Fla	Apr. 25
May 13	Boiler plant, Philadelphia, Pa	Apr. 25
	Advertised, Eng. News, Apr. 25 and May 2.	
May 13	**Officers' quarters, Washington, D. C**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 9.	
May 14	**Post-office, Rockford, Ill**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
May 15	**Schools, San Jose, Cal**	**Apr. 18**
May 15	**Storehouse, etc., Fort Screven, Ga**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 9.	
May 15	**School, Maryville, Mo**	**Apr. 11**
May 15	**Post-office, Denver, Colo**	**Apr. 4**
May 17	**Gymnasium, Whipple, Ariz**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 2.	
May 20	**Lamp shop, Tompkinsville, N. Y**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
June 4	**State Capitol, Pierre, S. Dak**	**Mar. 7**

WATER SUPPLY AND IRRIGATION.

Apr. 25	**Water-works and sewers, Staples, Minn**	**Apr. 18**
	Advertised, Eng. News, Apr. 11.	
Apr. 27	**Cast-iron pipe, Washington, D. C**	**Apr. 11**
	Advertised, Eng. News, April 11 and 18.	
Apr. 27	Water main, Utica, N. Y	Apr. 25
Apr. 29	Cast-iron pipe, etc., Quebec, Que	Apr. 25
Apr. 29	**Ditches, Garner, Iowa**	**Apr. 4**
Apr. 29	**Cast-iron pipe, etc., Carthage, N. Y**	**Apr. 18**
	Advertised, Eng. News, Apr. 18.	
Apr. 30	**Ditches, etc., Belle Fourche, S. Dak**	**Mar. 28**
Apr. 30	Improving water-works, McKeesport, Pa.	Apr. 25
	Advertised, Eng. News, Apr. 25.	
Apr. 30	Boilers, Rushville, Ind	Apr. 25
May 1	Water mains, etc., Ft. Leavenworth, Kan.	Apr. 25
May 1	**Water-works, Hartsville, S. C**	**Apr. 4**
May 1	**Water supply mains, North Chicago, Ill.**	**Apr. 18**
May 2	**Completing pumping station, Phila., Pa.**	**Apr. 4**
	Advertised, Eng. News, Apr. 4 to 25.	
May 2	**Reservoir, Astoria, Ore**	**Mar. 28**
May 2	Artesian well, Wahpeton, N. Dak	Apr. 25
May 3	Pumping plant, reservoir, Hawaii	Apr. 25
May 3	Water-works, Zumbro Falls, Minn	Apr. 25
May 3	**Water-works, Forsyth, Mont**	**Apr. 11**
May 4	**Boilers, etc., Pensacola, Fla**	**Apr. 18**
May 6	**Filters, etc., Albany, N. Y**	**Apr. 4**
	Advertised, Eng. News, Apr. 4 to 18.	
May 6	Artesian well, Jacksonville, Fla	Apr. 25
May 6	Reservoir, etc., Carthage, N. Y	Apr. 25
	Advertised, Eng. News, Apr. 25.	
May 7	Ditches, Parker, S. Dak	Apr. 25
May 7	Pumps, boilers, etc., Madill, Ind. T.	Apr. 25
	Advertised, Eng. News, Apr. 25 and May 2.	
May 7	**Water mains, Columbus, Miss**	**Apr. 18**
May 13	**Reservoir, Waterville, N. Y**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 9.	
May 15	**Ditch, Albany, Ill**	**Mar. 28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.	
May 16	**Cleaning strainers, Galveston, Tex**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
May 17	Cast-iron pipe, etc., Brandon, Man	Apr. 25
May 21	**Ditches, Mitchell, Neb**	**Apr. 4**
	Advertised, Eng. News, Apr. 4 to 25.	
May 28	Canal, etc., Belle Fourche, S. Dak	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 16.	
June 3	**Well, etc., Fort Bliss, Tex**	**Mar. 21**
June 5	**Dike, Crawford, Neb**	**Mar. 21**
	Advertised. Eng. News, Mar. 21 to Apr. 11.	
June 5	Filter plant, Burlington, N. J	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 30.	
June 19	Water-works, etc., Romney, W. Va	Apr. 25
July 1	Dam, Portland, Ore	Apr. 25

SEWERAGE.

Apr. 26	**Sewers, Tomah, Wis**	**Apr. 11**
Apr. 26	Sewers, Mendota, Ill	Apr. 25
Apr. 27	Sewers, Bridgeport, Pa	Apr. 25
Apr. 27	**Sewers, Oshkosh, Wis**	**Apr. 18**
Apr. 29	Sewers, Sandersville, Ga	Apr. 25
Apr. 30	**Sewer pipe, Winnipeg, Man**	**Apr. 11**
Apr. 30	**Sewers, Fernie, B. C**	**Mar. 28**
	Advertised, Eng. News, Mar. 28 to Apr. 11.	
Apr. 30	**Sewers, Brampton, Ont**	**Apr. 4**
May 1	**Sewers and water-works, Hartsville, S. C.**	**Mar. 28**
	Advertised, Eng. News, Mar. 28 to Apr. 25.	
May 1	**Sewers, Camden, S. C**	**Mar. 28**
	Advertised, Eng. News. Mar. 28 to Apr. 25.	
May 1	**Culverts, etc., Ft. Riley, Kan**	**Apr. 18**
May 1	Sewer, Ann Arbor, Mich	Apr. 25
May 1	Sewer, Oakland, Cal	Apr. 25
May 2	Sewer, Prescott, Ariz	Apr. 25
May 2	Sewers, etc., North Olean, N. Y	Apr. 25
	Advertised, Eng. News, Apr. 25.	
May 3	Sewers, Bronxville, N. Y	Apr. 25
	Advertised, Eng. News, Apr. 25.	
May 3	**Sewers, Sandersville, Ga**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 2.	
May 3	**Drain, Utica, N. Y**	**Apr. 11**
May 6	**Sewer, Binghamton, N. Y**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 2.	
May 6	Sewers and water-works, Hastings, Minn.	Apr. 25
May 7	Sewage tank, Summit, N. J	Apr. 25
	Advertised, Eng. News, Apr. 25 and May 2.	
May 7	**Sewers, Trenton, N. J**	**Apr. 18**
May 8	**Sewers, Richmond, Ind**	**Apr. 18**
	Advertised, Eng. News, Apr. 18.	
May 8	**Sewers, Boise, Idaho**	**Apr. 18**
May 8	Sewers, etc., New York, N. Y	Apr. 25
May 9	Sewers, Lamar, Colo	Apr. 25
	Advertised, Eng. News, Apr. 25.	
May 10	Sewers, Madison, Wis	Apr. 25
May 13	**Sewer, Washington, D. C**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
May 15	**Storm-water drains, Baltimore, Md**	**Apr. 18**
	Advertised, Eng. News, Apr. 18.	
May 16	Sewers, Waco, Tex	Apr. 25

STREETS AND ROADS.

Apr. 25	**Broken stone, etc., New York, N. Y**	**Apr. 18**
Apr. 25	**Highway, Lisbon, Ohio**	**Apr. 11**
Apr. 26	**Paving, etc., Cincinnati, Ohio**	**Apr. 18**
Apr. 25	**Paving, etc., East St. Louis, Ill**	**Apr. 18**
Apr. 26	**Paving, etc., Louisville, Ky**	**Apr. 18**
Apr. 26	Paving, etc., Chillicothe, Ohio	Apr. 25
Apr. 27	**Paving, Bridgeport, Pa**	**Apr. 11**
Apr. 27	**Roads, Greencastle, Ind**	**Apr. 11**
Apr. 29	**Grading, Fond du Lac, Wis**	**Apr. 11**
Apr. 29	**Macadam, Mt. Holly, N. J**	**Apr. 11**
Apr. 29	**Paving, Salisbury, Md**	**Apr. 4**
	Advertised, Eng. News, Apr. 4-11.	
Apr. 29	Paving, etc., Corry, Pa	Apr. 25
	Advertised, Eng. News, Apr. 25.	
Apr. 29	Cement walks, Delhi, Ont	Apr. 25
Apr. 30	Repaving, Buffalo, N. Y	Apr. 25
Apr. 30	Cement walks, Berlin, Ont	Apr. 25
Apr. 30	Paving, etc., Ossining, N. Y	Apr. 25
Apr. 30	Road, Xenia, Ohio	Apr. 25
Apr. 30	**Roads, Pittsburg, Pa**	**Apr. 18**
May 1	**Sidewalks, Blue Grass, Iowa**	**Apr. 18**
May 1	Paving, etc., Cincinnati, Ohio	Apr. 18
May 1	**Roads and walks, Ft. Moultrie, S. C**	**Apr. 4**
	Advertised, Eng. News, Apr. 4-25.	
May 1	**Macadam, etc., Ft. Du Pont, Del**	**Apr. 4**
	Advertised, Eng. News, Apr. 4-11.	
May 1	**Roads, etc., Ft. Washington, Md**	**Apr. 4**
May 1	**Roads, etc., Ft. Adams, R. I**	**Apr. 4**
May 1	**Roads, Ft. Hancock, N. J**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to 25.	
May 1	**Grading, etc., Ft. Totten, N. Y**	**Apr. 11**
May 1	Repairing pavement, New York, N. Y	Apr. 25
May 1	Grading, etc., Paterson, N. J	Apr. 25
May 1	Repairing pavements, Chicago, Ill	Apr. 25
May 1	Roads, etc., Ft. McKenzie Wyo	Apr. 25
May 1	Grading, etc., Ft. Stevens, Ore	Apr. 25
May 1	Sidewalks, etc., Ft. Bayard, N. Mex	Apr. 25
May 2	Paving, etc., New York, N. Y	Apr. 25
May 2	Limestone, etc., New York, N. Y	Apr. 25
May 2	**Paving, Petersburg, Va**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
May 3	**Highway, Painesville, Ohio**	**Apr. 18**
May 3	**Paving, etc., Cincinnati, Ohio**	**Apr. 18**
May 3	Macadam, Lexington, N. C	Apr. 25
	Advertised, Eng. News, Apr. 25 and May 2.	
May 3	Paving, etc., Franklin, Pa	Apr. 25
May 4	Paving, Lorain, Ohio	Apr. 25
	Advertised, Eng. News Apr. 25 and May 2.	
May 4	Improving roadway, Fredericksburg, Va.	Apr. 25
May 4	Roads, Jeffersonville, Ind	Apr. 25
May 4	Grading, etc., Oshkosh, Wis	Apr. 25
May 4	**Paving, Boston, Mass**	**Apr. 11**
May 4	**Paving, Chagrin Falls, Ohio**	**Apr. 11**
May 5	Road, Benzonia, Mich	Apr. 25
May 6	Repairing pavement, New York, N. Y	Apr. 25
May 6	Cement walks, Ft. Porter, N. Y	Apr. 25
May 6	Paving, White Plains, N. Y	Apr. 25
May 6	Paving, etc., Montgomery, Ala	Apr. 25
May 6	Road, Greensburg Ind	Apr. 25
May 6	Walks, etc., Vancouver Barracks, Wash.	Apr. 25
May 6	**Paving, etc., Ashland, Ohio**	**Apr. 18**
May 7	**Paving, Alexandria, La**	**Mar. 28**
May 7	**Roads, Vincennes, Ind**	**Apr. 18**
May 7	**Roads, Brazil, Ind**	**Apr. 18**
May 7	Paving, Bayonne, N. J	Apr. 25
	Advertised, Eng. News Apr. 25 and May 2.	
May 7	Macadam, etc., Madison, Wis	Apr. 25
May 7	Paving, etc., Cohoes, N. Y	Apr. 25
May 7	Grading, etc., Ridgewood, N. J	Apr. 25
May 7	Repairing pavements, Trenton, N. J	Apr. 25
May 7	Paving, etc., St. Louis, Mo	Apr. 25
May 8	Paving, etc., New York, N. Y	Apr. 25
May 8	Roads, Orleans, Ind	Apr. 25
May 8	Paving, Chippewa Falls, Wis	Apr. 25
May 9	Highway, Jefferson, Ohio	Apr. 25
May 9	Roads, Winchester, Ind	Apr. 25
May 10	Grading, etc., Columbus, Ohio	Apr. 25
May 10	Improving pike, Cincinnati, Ohio	Apr. 25
May 11	Grading, etc., Terre Haute, Ind	Apr. 25
May 11	Paving, Peru, Ind	Apr. 25
May 15	Roads grading, Hawaii	Apr. 25
May 15	**Paving sewers, etc., Natchez, Miss**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 9.	
May 16	**Paving, etc., Bluefield, W. Va**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 2.	
May 18	Walks, Ft. Benj. Harrison, Ind	Apr. 25

MISCELLANEOUS CONTRACTS.

Apr. 25	**Subways, New York, N. Y**	**Apr. 4**
Apr. 25	**Subway ventilation, New York, N. Y.**	**Apr. 18**
Apr. 25	Ry. grading, Charlotte Harbor&Northern.	Apr. 25
Apr. 29	**Undergrade crossing, Louisville, Ky**	**Apr. 18**
Apr. 29	**Cribs, piers, etc., Milwaukee, Wis**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to 25.	
Apr. 29	Cement, Ottawa, Ont	Apr. 25
Apr. 30	**Dredging, Tampa, Fla**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to 25.	
Apr. 30	**Cement, Roumania (foreign)**	**Apr. 4**
Apr. 30	**Wire fence, Ft. Sam Houston, Tex**	**Apr. 18**
Apr. 30	**Steel, Belle Fourche, S. Dak**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
May 1	**Wharf, dredging, Fort Hunt, Va**	**Apr. 11**
May 1	**Breakwater, Newport, R. I**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to 25.	
May 1	Fire alarm signal boxes, New York, N. Y.	Apr. 25
May 1	Cement, Galt, Ont	Apr. 25
May 1	Railway, Belgium (Foreign)	Apr. 25
May 2	**Rip-rap, Wilmington, N. C**	**Apr. 4**
May 2	**Dredging, Des Moines, Iowa**	**Mar. 14**
May 3	Crematory, Salt Lake City, Utah	Apr. 25
	Advertised, Eng. News, Apr. 25.	
May 6	**Public bath, Albany, N. Y**	**Apr. 18**
May 7	**Refuse destructor, New York, N. Y**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 and 25.	
May 7	**Wireless sets, generating sets, New York,**	**Apr. 11**
May 7	Locomotive cranes, Panama	Apr. 25
May 8	Dredging, Wilmington, Del	Apr. 25
	Advertised, Eng. News Apr. 25 and May 2.	
May 8	Ditch, Des Moines, Iowa	Apr. 25
May 8	**Excavation, Boston, Mass**	**Apr. 11**
	Advertised, Eng. News, Apr. 11 to May 2.	
May 8	**Jetty, Nantucket, Mass**	**Apr. 18**
	Advertised, Eng. News, Apr. 18 to May 2.	
May 10	**Post fence, Prescott, Ariz**	**Apr. 18**
May 11	Levee, Vicksburg, Miss	Apr. 25
May 14	Subway, New York, N. Y	Apr. 25
May 15	**Dredging, Albany, Ill**	**Mar. 28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.	
May 15	Drainage tunnel, Cripple Creek, Colo	Apr. 25
	Advertised, Eng. News, Mar. 28.	
May 15	Marine boiler, Cleveland, Ohio	Apr. 25
May 15	Subways, Washington, D. C	Apr. 18
	Advertised, Eng. News, Apr. 18 to May 2.	
May 15	Dump scows, Cincinnati, Ohio	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 9.	
May 18	Breakwater superstructure, Buffalo, N. Y.	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 16.	
May 21	Riprap, New Haven, Conn	Apr. 25
	Advertised, Eng. News, Apr. 25 to May 16.	

CIVIL SERVICE EXAMINATIONS.

May 1	**Engineer, Jefferson Barracks, Mo**	**Apr. 18**
May 1	**Engineer, Fort H. G. Wright, N. Y**	**Apr. 18**
May 8	**Asst. Chemist, Washington, D. C**	**Apr. 18**
May 8	**Asst. Physicist, Washington, D. C**	**Apr. 18**
May 8	**Ch. Engr., Chicago, Ill**	**Apr. 18**
May 8	**Assistant Engr., New York, N. Y**	**Mar. 21**
May 9	**Laboratory Helper, Washington, D. C.**	**Apr. 18**
May 15	**Asst. Physiologist, Washington, D. C**	**Apr. 25**
May 15	**Plant Pathologist, Washington, D. C**	**Apr. 25**
May 29	**Topograph Draftsman, New York, N. Y.**	**Mar. 21**
June 4	**Asst. Engineer, New York, N. Y**	**Apr. 4**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ABBEVILLE & NORTHWESTERN.—Company will begin construction soon. Directors have been elected as follows: J. L. Bankston, Pres.; W. A. Cherry, Vice-Pres.; L. P. Wimberly, Secy. and Treas.; Hal Lawson, Gen. Counsel; W. B. Fussell, W. H. Wilkinson and E. M. Carnes, all of Abbeville, Ga.

BARKER & CLARKS GAP.—Incorporated in West Virginia to build a railroad in the interest of the Norfolk & Western Ry. Co. from near Clarks Gap to a point on the Guyandotte River, near the mouth of Barker's Creek. L. E. Johnson, of Roanoke, W. Va., is one of the incorporators.

BEAUMONT & GREAT NORTHERN.—The contract for building the extension from Onalaska to Livingston, Tex., 15 miles, has been awarded to J. S. MOORE, of Livingston. The work is to be completed by Oct. 1. William Carlisle is Pres., Atchison, Kan.

BLUE VALLEY.—Incorporated in Missouri to build a railway five miles long in Jackson County. Capital stock, $100,000. Incorporators: Alexander Massey, John Georgen, Bryant Bldg.; Edwin L. Browne; Joseph S. Chick, Jr., Dwight Bldg., and Willard E. Winner, all of Kansas City, Mo.

CHARLOTTE HARBOR & NORTHERN.—Bids are asked by L. M. Fouts, Vice-Pres. and Gen. Mgr., Duval Bldg., Jacksonville, Fla., until April 25, for grading the roadbed for this railway between Arcadia and Plant City, Fla. George S. Bruce is Ch. Engr., Hull, Fla.

CIMARRON & NORTHWESTERN.—We are officially advised that contract for building the entire main line has been awarded to the WHITESCARVER CONSTRUCTION CO., of Trinidad, Colo., which is sub-letting contracts. Surveys are made and right-of-way secured. T. A. Schomburg is Pres., Trinidad; A. G. Allan is Ch. Engr., Cimarron, N. Mex. The line is to be built from Cimarron to Ponil Park, N. Mex., up Ponil Canyon, 24 miles. Noted on March 7.

CLEAR FORK & OCEANA.—Incorporated in West Virginia to build a railroad in the interest of the Norfolk & Western Ry. Co. from the mouth of the Clear Fork of the Guyandotte River to a point near Knob Fork of the Clear Fork. L. E. Johnson, Pres. of the Norfolk & Western, Roanoke, Va., is the chief incorporator.

COLORADO, TEXAS & MEXICO.—This road, which is projected to run from the Canadian Pacific through the Dakotas, Nebraska, Kansas and Oklahoma into Texas, and has an authorized capitalization of $150,000,000, made up of $25,000,000 preferred stock, $50,000,000 common stock and $75,000,000 50-year 5 per cent. bonds, according to a statement just issued by the president, has under construction 285 miles of road in Oklahoma and Texas, and contemplates building extensions into Mexico. When the new lines now under construction and contemplated are built the road will have an estimated length of 2,500 miles. In his statement the president says that the COLORADO CONSTRUCTION CO., of Mangum, Okla., has the contract for, and is building, the extensions to the road between Mangum and Abilene, Tex., a distance of 200 miles; the Hollis branch, 40 miles long, and the Vernon and Merkel branches, with a length of 25 and 20 miles, respectively. The lines under contemplation, he says, are from Eagle Pass, Tex., through Coahuila to Sierra Mojada, and to Chihuahua and Guymas, in Mexico. The officers of the company are Morris R. Locke, Pres. and Gen. Mgr.; W. E. Oliver, Vice-Pres., and H. M. Ferguson, Secy. and Treas. The general office is at Mangum, Okla.

COPPER RIVER & NORTHWESTERN.—We are officially informed that this road is under construction from the tide water terminal at Katalla, Alaska, through the Copper River Valley to the interior of Alaska, about 500 miles of railway line. A breakwater about one mile long will be constructed at Katalla. This is one of the J. P. Morgan and Guggenheim interests in Alaska, and will be built by the KATALLA COMPANY, of which M. K. Rodgers is Pres. and Gen. Mgr., Seattle Wash., and John Krey, Ch. Engr., Katalla, Alaska. Contracts for the whole or any part of this work will be let immediately.

IDAHO RAILROAD.—Company has been incorporated in Idaho to build a railroad 150 miles long from Boise to the Sawtooth Mountains. The route is from Boise easterly along or near the Boise River, to a point near More Creek, thence in a northerly direction to the mouth of Grimes Creek in Boise County, thence in a northerly direction to a point on the south fork of the Payette River, thence northeasterly along the south fork to a point on the divide in the Sawtooth range of mountains in Custer County. Capital stock, $4,500,000. Incorporators: B. F. Olden, H. E. Neal, C. B. Hurt, L. A. Coate, T. F. Salveston, all of Boise, Idaho; E. M. Boynton, of Boston; L. G. Wilkerson, of Piasa, Ill.; John E. Bell, Addison, Mich.; A. M. Bannister, Detroit, Mich.; J. W. Gardiner, Cadillac, Mich.; C. F. Hunt, Detroit, Mich.

KANSAS CITY SOUTHERN.—In an interview at Kansas City, Mo., J. A. Edson, Pres., is quoted as saying the Kansas City Southern intends to build into New Orleans, La., and that surveys have been made for a line about 250 miles long from Leesville, La., to New Orleans. A. F. Rust is Ch. Engr., Kansas City, Mo.

KANSAS CITY, TULSA & SOUTHWESTERN.—Incorporated in Oklahoma to build a railroad 600 miles long from Joplin, Mo., to the Gulf of Mexico, passing through Jasper County, Mo.; Labette and Cherokee Counties, Kan.; the Cherokee, Creek, Seminole and Chickasaw Nations and the counties of Pottawatomie, Oklahoma, Lincoln and Cleveland, Okla. There is to be a branch from Shawnee to Oklahoma City, Okla. Capital stock, $5,000,000. Incorporators: Jay Forsythe, C. D. Lynch, W. A. Cooke, C. J. Sawyer, of Tulsa, Ind. T., and Major Moberly, of Oklahoma City. Principal office, Tulsa, Ind. T.

KENTUCKY HIGHLANDS.—S. S. Bush, Pres. and Gen. Mgr., Louisville, Ky., has stated that a plan has been financed and eleven miles of standard-gage railroad from Versailles, Ky., to the Old Crow Distillery, near the Kentucky River, are now practically under way. Bids for grading are to be received at Versailles, Ky., where the construction office is situated, within the next two weeks. It is also intended before this is built to extend the line to Frankfort, Ky. C. D. Lehmkuhl is Supt. of Construction and A. A. Bond, Ch. Engr. Noted last week.

OREGON R. R. & NAVIGATION CO.—This company has filed at Lewiston, Idaho, plats of its right-of-way for a proposed line from the mouth of Lapwai Creek, twelve miles east of Lewiston, along the south bank of the Clearwater River to the west edge of the Bitter Root forest reserve, a distance of 75 miles. G. W. Boschke is Ch. Engr., Portland, Ore.

OREGON TRUNK LINE.—The United States Government has withdrawn its objection to the construction of this road on the ground that it would encroach upon the preserves of the reclamation service, and it is expected that the work of construction will begin soon. The road is projected from the mouth of the Deschutes River, in Oregon, south 250 miles. Surveys have been completed to Madras, Ore., 110 miles. W. F. Nelson is Pres., Seattle, Wash. F. S. Gordon is Ch. Engr.

OWENSBORO & ROCKPORT TERMINAL & BRIDGE CO.—This company, it is officially announced, proposed to build twelve miles of railroad and a bridge across the Ohio River at a cost of $1,500,000. George H. Cox is Secy., 322 St. Anns St., Owensboro, Ky. Noted fully on March 28.

OZARK TRANSIT CO.—J. J. Burns, Pres., 527 Victoria Bldg., St. Louis, Mo., advises us that surveys are under way for company's proposed line. Capital is ready and right-of-way is partly obtained. Company is doing its own work. The Ozark Transit Co. was incorporated with a capital of $50,000 to construct a railway from Waynesville, Mo., through the counties of Miller and Cole, touching Jefferson City, and from thence through Texas County, in a southerly direction to Mountain Grove, in Wright County, Mo. The line will be from 50 to 110 miles long.

PENSACOLA & NORTHEASTERN.—Surveys are being made, it is reported, by this company for its proposed line from Andalusia, Ala., southwest to Pensacola, Fla., 100 miles. It is said that construction work is soon to be started. The promoters include: J. L. Miller, C. M. Gordon, W. F. Scott and J. E. Habach, with office at Pensacola. The same interests, it is said, are promoting the Pensacola, Alabama & Western, projected from Pensacola to Meridian, Miss., and Memphis, Tenn.

PITTSBURG, BINGHAMTON & EASTERN.—F. A. Sawyer has resigned as president of this company and press dispatches state that work has been suspended on the road from Binghamton, N. Y., to Clearfield, Pa.

PLUM VALLEY.—Incorporated in South Dakota, with $500,000, to build from Pepin, Wis., north to Plum City, 22 miles. P. M. Ingold and H. A. Platt, of Plum City, Wis.; S. A. Cockerill and E. Dufond, of Washington, D. C.; P. L. Dotson and A. Dugellay, of Pierre, S. Dak., are incorporators.

SALINE VALLEY.—This company has been incorporated in Illinois to build a railway from Harrisburg to Marion. Capital stock, $50,000. Incorporators: W. C. Brown, Grand Central Station, New York; J. J. Parris, Harrisburg, Ill.; C. E. Schaff, E. T. Glennon and S. W. McCune, Chicago. These names may indicate that the road is projected in the interest of the Cleveland, Cincinnati, Chicago & St. Louis Ry.

SARATOGA & ENCAMPMENT.—C. W. Baldridge, Gen. Mgr., Saratoga, Wyo., advises us that this company has completed grading from Walcott to Saratoga. Contracts for the remainder of the line will be let soon. Track laying will be commenced soon. The company is in the market for track material, tools and equipment. F. J. Cramer is Ch. Engr., at Saratoga.

SAVANNAH & SOUTHWESTERN.—This company has applied for a charter in Georgia to build a railroad from Savannah, Ga., to the Gulf of Mexico, about 250 miles, passing through Baxley, Douglas, Moultrie and Cairo, Ga., and Quincy and Apalachicola, Fla. Capital stock, $7,000,000. Incorporators: D. G. Purse, L. McNeill, J. C. Rowland, E. M. Frank, J. J. McDonough and J. H. H. Entelman, of Savannah, Ga.; C. W. Deen, of Baxley, Ga.; J. W. Quincey, of Douglas, Ga.; W. B. Roddenberry and W. A. Walker, of Cairo, Ga.; J. A. Carlton, of Moultrie, Ga., and others.

SPOKANE & BRITISH COLUMBIA.—We are officially informed that the Kettle Valley Lines, operating the Spokane & British Columbia Ry., will extend this line from Republic to Spokane, Wash., 145 miles. Company now operates 40 miles of road between Grand Forks, B. C., and Republic, Wash. Survey has been made. Right-of-way is partly secured. A bridge will be built over the Columbia River. W. T. Beck is Pres., Republic, Wash.; H. W. Warrington is Ch. Engr., Grand Forks, B. C.

STEPHENVILLE, NORTH & SOUTH TEXAS.—We are officially advised that this company has been incorporated in Texas to build a line from Stephenville, Tex., to Hamilton, a distance of 45 miles. Construction is under way. READ & MONTGOMERY, of Stephenville, are the contractors. McK. Johnstone is Ch. Engr.; L. M. McArthur is Div. Engr., Carlton, Tex.

TONOPAH & GREENWATER.—We are officially advised this company will build a road between Shoshone and Greenwater, Cal., 45 miles, connecting at Shoshone with the Tonopah & Tidewater. There will be only new construction work on this line. John Ryan, Stagg, Cal., is Supt. Frank M. Smith is Pres.; Christian B. Zabriskie is Secy.-Treas., both at 100 William St., New York; DeWitt Van Buskirk, Mechanics Trust Co., Bayonne, N. J., is Vice-Pres. Noted on March 28.

WISCONSIN CENTRAL.—We are officially informed that MacARTHUR BROS. CO., Fisher Bldg., Chicago, has been awarded some heavy steam shovel work on the Wisconsin Central Ry. at White River, Wis., six miles south of Ashland, Wis. This work is just being opened up and will be done by the contracting company's own forces. Work will last entire season and is in charge of E. D. Stiles, at White River (Ashland postoffice), Wis.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

NEW BEDFORD, MASS.—The Shore Line Street Railway Co. has been formed to build and operate an electric railway to Horse Neck Beach and Westport Point. The entire length of the road will be 13 miles. Its capitalization is $75,000. The directors are the following: Charles F. Parker, of Woonsocket, R. I.; A. C. Ralph, of Taunton; Andrew H. Sowle, of Westport; B. W. Gleason, of Boston; J. M. Shorrocks, of Westport; J. F. Richardson, of Albany, N. Y.; N. L. Sheldon, of Boston.

WOONSOCKET, R. I.—The Consolidated Ry. Co., which controls the Rhode Island Co., is reported to have made an appropriation of $320,000 for the improvement of the street car facilities in this city, according to a statement given out recently by Edward G. Buckland, Vice-Pres. of the Rhode Island Co. The money appropriated will be used for relaying tracks in this city, which will cost $105,000. Twenty new double-truck vestibule cars have been ordered, to be delivered next October, at a cost of $100,000. An $80,000 car house is to be erected in Woonsocket and a new sub-station on the Providence & Burrillville line will cost $10,000, and $25,000 will be spent for feeders between Pascoag and Woonsocket to insure better distribution of power. F. N. Bushnell is Ch. Engr., Providence.

BRIDGEPORT, CONN.—The Bridgeport & Danbury Elec. Ry. Co.'s application for a charter has been favorably reported by the Legislative Committee. The incorporators are John T. King, Henry E. Reilly and William H. Marigold, of Bridgeport. The committee has eliminated entirely from the petition of the incorporators the right to construct the proposed railway from Danbury to New Milford. In the original petition authority was asked for the construction of an electric railway from Bridgeport to New Milford with a branch to Danbury, via Bethel. The railroad committee has denied the petitioners the right to extend the lines of the proposed railway beyond Danbury. The company is "authorized to locate, construct, equip, maintain and operate an electric railway, with suitable and necessary turnouts and switches, in and through the towns of Bridgeport, Trumbull, Monroe, Newtown, Bethel and Danbury."

BUFFALO, N. Y.—Announcement is made that the International Railway Co. expects during the coming summer to place contracts for the following construction work: Chippewa—Franklin St. extension in Buffalo, 2.18 miles of single track; Delavan Ave. extension in Buffalo, .68 miles of single track; East Ave. extension in Lockport, 2.27 miles of single track, and Devil's Hole extension at Niagara Falls, .61 miles of track. In addition company may purchase three 1,000 KW. rotary converters and 50 new semi-convertible cars, to be 48 ft. 3 ins. long. M. D. Lloyd is Pur. Agt.

ALLENTOWN, PA.—The Lehigh Valley Transit Co. will build extensions, as the ordinance covering this new work has been passed by the City Council in special session. The new ordinance requires the company to complete the extensions in two years and to pay $15,000 toward the construction of the Tilghman St. bridge. W. H. Hall is Ch. Engr.

COLLEGEVILLE, PA.—The Perkiomen Valley Traction Co. has been organized to build an electric line about 11½ miles long from here through Perkiomen Township, Schwenkville, Frederick and Marlborough Townships and Green Lane to its terminus at the intersection of the Perkiomen and Sumneytown Turnpikes. The incorporators are: Irvin H. Bardman, Schwenkville; Henry T. Hunsicker, Iron Bridge; Samuel E. Hughes, George Dunn and John H. Dager, Norristown, Pa. Preliminary surveys have been run.

TITUSVILLE, PA.—The directors of the Titusville Electric Traction Co. have passed resolutions authorizing the extension of the company's lines to Cambridge Springs and also to build a line to Oil City, via Cherrytree. Plans and specifications are now being drawn for the proposed extensions. Plans are also being prepared for improvements at the company's parks, "Fieldmore" and "Mystic." W. J. Smith is Gen. Mgr. and Pur. Agt.

YORK, PA.—The route for the extension of the York County Traction Co. between York and Hanover, a distance of 21 miles, has been decided upon. It is stated that construction will begin next month under the direction of Dodge & Day, Engrs. and Contractors, Nicetown, Philadelphia, Pa.

BRUNSWICK, MD.—John S. Mallette, Ch. Engr. of the Brunswick & Middletown Electric R. R. Co., advises us that contracts probably will be awarded in June for building proposed trolley line from Brunswick to Petersville, Burkittsville, Broad Run and Middletown, 15 miles. W. Schnauffer, Brunswick, is Pres. Preliminary survey has been made and a considerable portion of right-of-way secured. Previously noted.

NORFOLK, VA.—The Jamestown Monorail Co. has been incorporated at Baltimore, Md., to build a railway not over 12 miles long. The incorporators are R. Guy Cochran; Edwin L. Tunis, of Windsor H[illegible] Henry W. Williams and William E. W[illegible]g., Jr., 507 Fidelity Bldg., and George J. [illegible]edel, all of Baltimore.

ONANCOCK, VA.—C. C. [illegible] Ch. Engr. of the Accomac Traction & P[illegible] Co., Onancock, writes us that survey [illegible] made for proposed line which will [illegible]-miles in length. It will run from O[illegible]ck to Accomac, via Taskey. Right-of-[illegible] is secured. Capital is partly subscribed [illegible] bonds will be issued to secure remainder [illegible]nds necessary for construction. Spe[illegible] F. Rogers, Finney, Va., is Pres. Contra[illegible] will be let for grading and laying track. [illegible]pany is in the market for all materia[illegible] Noted on April 18.

ROANOKE, VA.—We are officially informed that the Roanoke Traction Co. has secured the right-of-way for its line i[illegible] through Roanoke County to [illegible]anoke and [illegible]m, about nine miles in length. Chris. Markey is Pres. and Charles G. Cannaday Vice-Pres., both at Roanoke. Survey [illegible] not been started. Noted on March 28.

ELKINS, W. VA.—We are officially advised that the Elkins Electric Ry. [illegible] has been granted its franchise. Company [illegible] build its line over city streets. Right-of-way is secured, but survey has not been made. The incorporators are J. C. McSp[illegible]n and H. F. Berkbile, of Rockwood, Pa.; [illegible] K. Taylor, of Pittsburg, and C. W. M[illegible]ell and J. E. Morgan, of Elkins.

ASHEVILLE, N. C.—We are officially advised that the Asheville & H[illegible]ersonville R. R. Co. has negotiations pending for capital for constructing its projected line. It will extend from Asheville to Hendersonville, N. C., 22 miles. Surveys are being made and right-of-way being secured. C. E. Van Bibber is Ch. Engr., 60 Wall St., New York.

BRIDGEPORT, ALA.—The City Council has granted a franchise for an electric railroad to T. W. Pratt, of Huntsville, Ala., who is connected with the proposed Huntsville & Nashville Ry. It is also proposed to build to Copenhagen and South Pittsburg. He was also granted a franchise for an electric power and lighting plant. The ordinance specifies that work shall begin within six months and be prosecuted continuously until completed.

CORINTH, MISS.—Mark Bynum, Secy. of the Corinth & Shiloh Electric Ry. Co., informs us that this company will let contracts soon for building its line from Corinth to Shiloh National Park on the Tennessee River, a distance of 22 miles. Abe Rubel is Pres. and W. J. Lamb, Vice-Pres., at Corinth. Right-of-way is secured and survey has been made. The company has secured permission to enter the Park.

NASHVILLE, TENN.—H. H. Mayberry, Pres. of the Nashville Interurban Railway Co., First National Bank Bldg., will build a line from Nashville via Franklin, Spring Hill and Columbia to Mount Pleasant, Tenn., 60 miles. The other officers are: Vice-Pres., Nat Baxter, Jr.; Secy., C. R. Cockle; Treas., Joseph Frank; Ch. Engr., D. A. Proctor. The contractor is the INTERURBAN CO., Patrick Hirsch, Mgr., 25 Broad St., New York.

It is reported that an electric railway from Nashville to the proposed site of the White City will be built by S. P. Condon, of Knoxville, Tenn. Charles Kuhn, of the Buena Vista Springs, is the promoter of the plan. The line will be about two miles long and will cost about $125,000.

LYNCHBURG, TENN.—R. A. Parks, of Lynchburg, states that a charter has not yet been obtained for the proposed electric interurban railway from Lynchburg to Tullahoma, Tenn. About $25,000 has been subscribed and surveys and estimates will be made this spring. The company will shortly be incorporated. Another report says that J. R. Jeffers and William Henderson, 1123 Broadway, New York, are also interested.

TOLEDO, OHIO.—C. D. Whitney, Pres. of the Toledo, Wabash & St. Louis R. R. Co., Toledo, states that this company proposes to build a combined steam and electric railway from Toledo to St. Louis, Mo., via Defiance, Ohio, and Fort Wayne, Indianapolis, and Terre Haute, Ind. Surveys have been made from Toledo to Fort Wayne and it is expected to begin construction about July 1. The road is to be built for freight and passenger service and will be laid with 70-lb. rails. G. G. Metzger, Vice-Pres.; J. P. McAfee, Treas., and S. L. McAfee, Secy., all of Toledo. Noted fully on April 4.

BRYAN, OHIO.—E. Darrow, Ch. Engr. and Gen. Mgr. of the Toledo & Indiana Ry. Co., Toledo, advises us that this company's construction department will build the extension from Bryan to Edgerton, Ohio; Butler, Waterloo, Kendallville and Goshen, Ind., 65 miles. Survey has been run and right-of-way secured. S. C. Schenk is Pres. Noted on April 4.

DEFIANCE, OHIO.—The Northwestern Ohio Elec. Ry. Co. has made preliminary arrangements for financing the construction of its line, which was projected by Dr. R. A. Rigrish and J. H. Hockman, of Defiance, and E. C. Belland and J. W. Weadcox, of Toledo. The offices will be in this city. The railway will be 34 miles in length. The bond issue will be $1,000,000, and it is estimated that the construction will cost about $30,000 a mile. The road will connect with the Indiana, Columbus & Eastern Traction Co. at Defiance; at Bryan it will cross the Toledo & Indiana Ry. Co.

INDIANAPOLIS, IND.—D. H. Morgan, Secy. of the Grand Central Traction Co., 403 State Life Bldg., Indianapolis, informs us that company will let contracts soon for building its railway. The company proposes to build between Indianapolis and Evansville and the intervening towns and villages, with a branch line from Bloomington to Terre Haute and intervening towns, a total of 251 miles. The lines will run through the counties of Marion, Johnson, Brown, Monroe, Lawrence, Orange, Dubois, Warrick, Vanderburg, Owen, Clay and Vigo. The company's office will be in Indianapolis. Surveys are now being made. Capital has been secured through the London Shore & Debenture Co., of London, England. Right-of-way is being obtained. D. Whitney is Pres., Muncie, Ind.; Will[illegible]uncan is Ch. Engr., Bedford, Ind.

COVINGTON, IND.—C. Walter Leinbach, Ch. Engr. of the Covington & Southwestern R. R. Co., Covington, advises us that contract for building the road has been awarded to the COLLINS CONSTRUCTION CO., 92 LaSalle St., Chicago, which will begin work at once. G. Ruhl is Pres., Covington. The line will be built from Covington to Kingman, via Winkler, Wallace, Alamo and Crawfordsville, Ind., 45 miles. Surveys have been made and right-of-way has been obtained for [illegible] miles of the distance.

ALLEGAN, MICH.—William N. Hull has applied for a franchise in this town to build an electric railway from Allegan to South Haven, with a spur to Otsego.

MILWAUKEE, WIS.—We are officially advised that the MacARTHUR BROS. CO., Fisher Bldg., Chicago, has been awarded some heavy steam shovel work for the Chicago & Milwaukee Elec. Ry. Co., near Milwaukee. Work is being commenced and will last all season. Thos. Dixon is Supt. for the contractors and may be addressed at Lake (Milwaukee Post-Office), Wis.

IOWA CITY, IOWA.—We are officially advised that the Iowa City & Oskaloosa Ry. Co. has begun surveys for its proposed line from Iowa City to Williamsburg and Oskaloosa. Right-of-way is partly secured. George W. Ball, of Iowa City, is Pres.

LAWRENCE, KAN.—A charter has been granted the Lawrence Electric Transportation Co. to equip and operate electric cars for the transportation of passengers and freight in the city of Lawrence and other cities in the state where the company may later secure franchises. The company is incorporated for $200,000. The organizers of the new company are: O. W. Murphy, Dr. J. A. Hamlin, W. W. Cleland, Prof. F. W. Blackmar, R. M. Ridgeway, W. E. Pitts and Harry Dick, all of Lawrence. Noted last week.

GALLATIN, MO.—C. F. Alt, of Warren, Pa., is interested in a project to build a railway from the Wabash crossing, near Gallatin, to Excelsior Springs, about 40 miles in length. Gasoline cars or gasoline electric cars would be used. Part of the route has been surveyed, but no right-of-way has been obtained. Company has not been organized yet, we are officially informed.

OKLAHOMA CITY, OKLA.—The Oklahoma City Rapid Transit Railway Co., of Oklahoma City, has been chartered with $2,000,000 capital to build a line from Oklahoma City to Tecumseh, about 40 miles. The incorporators are George Silsby, of Saginaw, Mich.; D. D. Klapp, E. W. Milburn, G. M. Cissna, J. H. Surber, George Reed, Henry Lott, G. A. Ruggles, M. H. Tennison, C. B. Connor, S. B. Mitchell and W. E. Powell, all of Tecumseh, Okla.

The Oklahoma City Railway Co. will spend more than $500,000 for betterments this year, including extensions of lines, it is reported. John W. Shartel is Gen. Mgr., 120 Grand Ave.

ABILENE, TEX.—The Abilene Street Railway Co., capital $100,000, has been incorporated by J. M. Wagstaff and others.

RENO, NEV.—Walter J. Harris, a director of the Farmers & Merchants Bank, and J. E. Gignoux, of this city, have applied to the City Council for a franchise for an electric street railroad to cover the business and northern residence district of Reno. The promoters have not stated how much backing they have, but they promise to have the line finished by August if given the desired privilege. Estimated cost, $30,000.

LAKEPORT, CAL.—The Sonoma & Lake County Railway Co. has been incorporated, with a capital stock of $1,000,000. M. C. Dickinson, of Ukiah, is Pres.; J. E. Fulton, Vice-Pres.; W. S. Fry, Secy.; J. R. Garner, Treas.; J. W. Preston, J. A. Sparks, D. F. MacIntire, W. P. Merideth and W. N Johnson. It is the purpose of the company to construct an electric railway from Cloverdale to Lakeport, with a branch to Kelseyville. The survey has already been made from Lakeport to Cloverdale, a distance of 27 miles, with a maximum grade of not over 3%, with one tunnel. The profiles and maps are being made out, and it is the intention to begin work on the road as soon as weather permits, according to the San Francisco "Chronicle."

SAN DIEGO, CAL.—As a result of a conference between J. D. Spreckels and J. D. Collier, Pres. of the Point Loma Electric Railway Co., the San Diego Electric Railway Co. will build and operate the line for which the Point Loma Co. has secured a franchise. The expense of building is to be borne by the Point Loma Co. William C. Clayton, Vice-Pres. of the San Diego Co., is reported to have stated that work will be started on the road, which will be six miles long, as soon as material can be secured.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

ELLSWORTH, ME.—We are officially advised that the contracts have been awarded by Bar Harbor and Union River Power Co. for traveling crane for Ellsworth power house to NILES-BEMENT POND CO., and for penstocks and appurtenances to S. MORGAN SMITH CO., York, Pa. Sellers and Rippey, Stephen Girard Bldg., Philadelphia, are Consult. Engrs., and J. A. Leonard, Ellsworth, is Engr. Specifications for turbine governors and structural steel are to be issued at an early date.

BOSTON, MASS.—The Bureau of Yards and Docks, Navy Dept., Washington, has awarded to the GENERAL ELECTRIC CO., Schenectady, N. Y., contract for furnishing two 750 K. W. turbo-generator units for the Boston Navy Yard, at their price of $34,400.

NEW YORK, N. Y.—Bids are asked until 11 a. m., April 30, by John V. Coggey, Comr. Dept. of Corrections, for running new underground feeder cables for lamps and buildings on hill, and installing a new system of electric wiring for supplying electric light in the several buildings, etc., on Hart's Island, New York.

COLD SPRING HARBOR (L. I.), N. Y.—The Town Board awarded a contract on April 13 to the HUNTINGTON LIGHT & POWER CO., of Huntington, to furnish 41 street lights in the village for five years, at $16.25 per light a year, 20-c. p. Edgar L. Street, 44 Wall St., New York, is Mgr.

NEWARK, N. J.—James M. Seymore, Newark, has complete plans for a municipal electric plant to be constructed at the City Hall, at a cost of about $30,000. The specifications call for three 100-KW. generators. Michael J. McGowan, Jr., is Chn. of Lighting Com.

WASHINGTON, D. C.—Bids are asked at the Department of Agriculture until May 3, for furnishing to the Forest Service 3,000 miles of No. 12 galvanized iron wire, 35,000 standard oak brackets and 35,000 standard insulators. One-third of this material is to be delivered at Denver, Col., and the other two-thirds at Salt Lake City, Utah. James Wilson is Secy of Agriculture.

SPARTANBURG, S. C.—Southern Power Co., of Charlotte, S. C., has purchased site near Spartanburg for erection of electric-power distributing plant, to cost $100,000.

BIRMINGHAM, ALA.—The Warrior River Power & Electric Co. will be incorporated, it is reported, with capital stock of $100,000 to develop the water-power of Locust Fork of the Black Warrior River and transmit electricity for power and lighting. It is contemplated to build a canal from Locust Fork to Birmingham, to operate barges and vessels and to develop mines and quarries. Officers are: M. C. McGannon, Nashville, Tenn., Pres.; Albert Hudson, also of Nashville, Vice-Pres.; Edgar A. McCord, of Albertville, Ala., Secy.-Treas.

GADSDEN, ALA.—Alabama City, Gadsden & Attalla Street Ry. Co. has awarded contract to OTTO S. FISHER for erection of boiler building for new power plant. The building will be 40 × 80 ft., steel and fireproof. John D. Gaboury, Gadsden, is Mgr.

BRIDGEPORT, ALA.—A franchise has been granted to T. W. Pratt, Huntsville, Ala., to construct and operate an electric light and power plant here.

PASS CHRISTIAN, MISS.—The city has under consideration the question of establishing an electric lighting system. W. A. Terrell is Mayor.

CHATTANOOGA, TENN.—S. J. Dales, Consul. Engr. of Childs, Hulswitt & Co., of Grand Rapids, Mich., holders of the controlling interest in the Chattanooga Gas Co., has been perfecting the plans for the $100,000 addition and improvements proposed for the local plant which are to be made this year. The company expects to be able to start work within the next sixty days on the improvements.

LEBANON, IND.—It is reported that the Lebanon Electric Light Co. is contemplating improvements to cost about $35,000.

FORT WAYNE, IND.—Bids probably will be received by the Board of Public Works about June 12 for construction of municipal electric light and power plant for lighting streets and public buildings, to cost about $160,000. F. Randall is City Engr.

NEW ALBANY, IND.—The United Gas & Electric Co. has decided to enlarge its plant in order to furnish water, light, heat and power in Jeffersonville and vicinity. J. W. Dunbar is Supt., New Albany.

INDIANAPOLIS, IND.—Arnold Co., Engrs., 181 LaSalle Ct., Chicago, Ill. let general contract for a power house, to be erected at Indianapolis, for the Cleveland, Cincinnati, Chicago & St. Louis Ry., Cincinnati, to H. EILENBERGER & CO., 153 LaSalle St., Chicago. The building is to be two stories, 110 × 130 ft., built of brick, steel and concrete. Cost, $150,000.

DANVILLE, IND.—The City Council has granted a franchise to Charles R. Lane and associates, of Fort Wayne, for construction, equipment and operation of an electric light, heat and power plant.

SULLIVAN, IND.—Bids are asked by McMorrow & McGaughey for construction of an addition to the Sullivan electric light plant. New equipment will be purchased.

NORTH MANCHESTER, IND.—The Directors of the North Manchester Electric Light plant, recently destroyed by fire, have decided to rebuild the plant.

LAFAYETTE, IND.—Bids are asked by the Trustees of the State Soldiers' Home, W. S. Haggard, Chn., for furnishing and installation of two 200-HP. boilers; one 200-HP. direct connection engine; one 150-KW. dynamo, and construction and equipment of a cold storage ice plant and a water tank of 500 gallons capacity.

HOLLAND, MICH.—The Board of Public Works contemplates enlarging the municipal electric light plant, at a cost of about $30,000. A. E. McClellan, Holland, is Ch. Engr. James De Young, Holland, is Mgr.

BAY CITY, MICH.—The Bay City Traction & Electric Co. is to enlarge the power plant by erecting an additional 300 ft. x 100 ft. for the machinery department. A 500-K. W. turbine is to be installed to generate power for the electric lighting plant. A new 700-K. W. railway generator will be put in also for the purpose of generating power for the railway. The boiler capacity will also be increased. These improvements will involve an expenditure of between $50,000 and $100,000. S. E. Wolfe is Gen. Mgr., Saginaw.

GALENA, ILL.—The Dubuque & Southwestern Wisconsin Ry. Co., Madison, Wis., is reported to have purchased the municipal electric lighting plant in this city, with a contract for lighting the city for a term of 25 yrs. A. D. Fox, of Madison, Wis., is interested in the company.

CHICAGO, ILL.—W. M. CRILLY, 167 Dearborn St., has secured general contract for constructing a sub-station to be erected at 42d St. and Wabash Ave. for the Chicago City Ry. Co. The structure will be two stories high, 60 × 161 ft., built of brick and steel. Estimated cost, $100,000. W. H. Leland, 2020 State St., is Supt. Power Plants.

SALEM, WIS.—A. S. Higley, of Salem, is now letting contracts for construction of an electric lighting plant in the village of Salem which will supply lights to the villages of Salem and Bristol and the farmers living along the roads between them. Both the villages of Bristol and Salem will have their streets lighted from the plant and the lights will be sold to all the halls and churches that can be reached by the circuits. The new plans will cost in the neighborhood of $20,000. The work of constructing the plant and stringing the circuits will be started within a few weeks and it is expected that the plant will be ready for business by Sept. 1.

HERRINGTON, KANS.—The citizens have voted in favor of issuing bonds for an electric light plant.

KANSAS CITY, MO.—LEWIS & KITCHEN, 19th and Central Sts., Kansas City, are reported to have secured the contract for the heating and ventilating, boilers, refrigeration, electric wiring and automatic heat regulators for the new city hospital for $76,269.

OSCEOLA, MO.—At a recent meeting of Osceola business men a proposition was formulated to dam the Osage River to secure water power for industrial purposes. The proposed dam will cost $25,000 and Osceola will be asked to vote $9,500 in aid of the proposition. The Monegaw Springs Co. is deeply interested, as the dam will make the river navigable at all seasons as far as Taberville, 20 miles beyond Osceola.

GALVESTON, TEX.—An annex to the power house of the Galveston Electric Co. will be constructed at once. It will be equipped with a 500-HP. engine and generator and a 500-HP. boiler, supplying about 10,000 additional lights. About $15,000 will be expended on this addition, which is only intended to increase the company's lighting facilities during the summer months. Permanent improvements will be made next fall, and facilities for lighting will then be tripled. Present plant has 430-HP. capacity, which will supply 8,600 lights, while new machinery now ordered will give an additional 700-HP., supplying about 2,200 lights. It is understood that about $100,000 will be expended for the entire work. H. S. Cooper, Galveston, is Mgr.

DENTON, TEX.—The Denton Gas Co., lately incorporated, will erect gas plant 30 × 60 ft., with a capacity of 6,000 cu. ft. gas per day. Officers are: H. M. Griffin, Pres.; R. J. Wilson, Vice-Pres.; C. M. Simmons, Treas.; Newton M. Lee, Mgr.

GONZALES, TEX.—At a recent meeting of the Board of Directors of the Gonzales Water Power Co. it was decided to make improvements on the dam across the Guadalupe River at this town. Reinforced concrete will be used, and the improvements will cost in the neighborhood of $6,000. Work will begin at once.

OKLAHOMA CITY, OKLA.—The Oklahoma Gas & Electric Co. plans extensions to its electric light system. It is reported that the company will build a sub-station at Putnam Park. About $6,000 will be expended. F. H. Tidman is Mgr., Oklahoma.

HOLLY, COLO.—The Holly Sugar Co. is reported to be considering constructing an electric lighting system, with water-works in connection. Estimated cost, $40,000.

COLORADO SPRINGS, COLO.—The City Council has been authorized by popular vote to issue $160,000 of bonds for purchase or construction of a municipal electric light plant. R. H. Ashworth is City Engr.

HOQUIAM, WASH.—The work of clearing the site for the power plant to be built by the Grays Harbor Railway & Light Co. has been started. The construction of a plant to cost $200,000. This plant will furnish power and light for Hoquiam and Aberdeen. J. D. Crary, Aberdeen, Wash., is Gen. Mgr.

BELLINGHAM, WASH.—The Whatcom County Railway & Light Co. will erect an addition to their Noosack Falls power plant, to cost about $500,000. L. H. Bean is Local Mgr., Bellingham. Stone & Webster, 84 State St., Boston, Mass., are Gen. Mgrs.

PORTLAND, ORE.—The Portland Light & Power Co. will construct a power house on the site of the Glisan Block. The plant will supply light, heat and power. The building will also contain the offices of the company.

PETALUMA, CAL.—The Petaluma Gas & Electric Co. expects to begin work on a new plant to be built in this city for generating gas at once. The plant will generate 500,000 ft. of gas per day and will supply Petaluma, Santa Rosa, Napa and San Rafael. H. Weber is Local Mgr.

EUREKA, CAL.—Plans for the new gas works that are to be erected in this city by the recently incorporated Humboldt Gas & Electric Co. have been completed. The officers of the company expect to secure permission to lay mains throughout the city at once. The plant is to be located on a site 75 × 150 ft., just east of the electric plant of the North Mountain Power Co., in East End. The buildings are to be steel framed, with galvanized iron covering, the principal structure being 28 × 62 ft. in dimensions. To erect the plant, install the machinery and distributing system will call for an outlay of $100,000. THE CALIFORNIA LIGHT & FUEL CO., 21 Presidia Ave., San Francisco, has been awarded contract for putting the plant and entire system in readiness for operation within six months. One feature of the new gas works will be a system of duplicating, which will be exemplified by two gas generators, two compressors, two boilers, six storage tanks each 29 ft. long and 6 ft. in diameter, and four 8 × 8-ft. gas purifiers. The gas holder will be capable of holding 20,000 cu. ft. of gas. The storage tanks will be able to hold gas under 80 lbs. pressure. The distributing mains will be under five pounds pressure, and each consumer will be supplied through a reducing valve, which will cause a pressure of only two ounces and thus make the pressure at the burner absolutely uniform. The generators will each be capable of producing 50,000 cu. ft. of gas. Oil will be the fuel used in the plant. Four stocks will be used for the two generators and two boilers.

STREETSVILLE, ONT.—JESSE STRINGER, of Carrville, Ont., has been awarded contract for the concrete work on the dam and power house which is about to be constructed by the town at a cost of $20,000. John S. Fielding, 15 Toronto St., Toronto, Engr.

Bids are asked until April 30 by John S. Fielding, Toronto, for turbines of 126-HP., also generator, switchboard, etc., for power development at Streetsville.

LONDON, ONT.—The London Street Ry. Co. will commence work at once on additions to building and equipment to their power plant at an estimated cost of $50,000. C. B. King is Mgr.

STRATFORD, ONT.—The Stratford Gas Co. purposes making extensions to its plant. A large gas purifier is to be erected, and a gas holder will be added to the plant. J. S. Russell, of Stratford, is preparing the plans.

EDMONTON, ALTA.—We are officially advised that the city of Edmonton has let contract to the ALLIS-CHALMERS CO., Milwaukee, Wis., and the POWER & MINING MACHINERY CO., of Milwaukee, for a 1,000-HP. gas producer unit for their municipal power plant. This is an extension to the present steam power plant, but the intent is to do away with the steam plant eventually. The unit will be installed this summer under the direction of R. R. Keely, City Engr. This plant will furnish light and power for the city of Edmonton and supply the municipal railway now building and also run the electrical pumps of the water department.

CALGARY, ALTA.—The ratepayers have passed the by-law to provide $35,000 for an extension of the electric lighting plant. F. W. Thorold is City Engr.

BATTLEFORD, SASK.—Bids are asked until 5 p. m., May 10, by O. C. Lourie, Secy.-Treas. of the Town of Battleford, for installing an electric lighting system. Galt & Smith, 23 Jordan St., Toronto, are Consult. Engrs.

VERNON, B. C.—John Galt, C. E., Toronto, has presented a report to the City Council regarding the possibilities of utilizing the Shuswap Falls for the generation of electricity. He estimates the cost of the work at $179,000, including the erection of a plant at Shuswap Rapids, 26 miles east of Vernon.

VANCOUVER, B. C.—The Stave Lake Power Co., which is now engaged in establishing a 15,000-HP. hydro-electric plant at Stave Falls, will call for bids soon for supplying the generating plant and turbines. Three 5,000-KW. generators will be installed in the power-house.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

CLINTON, ME.—A 500-ft. bridge will be erected across Kennebec River, between Fairfield and Clinton, at Pishon's Ferry.

BUFFALO, N. Y.—Bids are asked until 11 a. m., May 2, by the Department of Public Works, Charles M. Morse, Deputy Engr. Comr., for constructing plate girder bridge, 35 ft. wide, with 74-ft. span, on pile and masonry foundation, across Slip No. 1, at River St.

LE ROY, N. Y.— The construction of bridge to connect Mill and State Sts. is reported contemplated. Estimated cost, $15,000.

PERKASIE, PA.—A new bridge will be constructed on Walnut St., replacing present structure. The bridge will be 200 ft. long, with two spans, each 60 ft., and one of 80 ft., 6-ft. sidewalks and 24-ft. driveway. The structure will be of steel, with concrete floor, and cost about $10,000.

WASHINGTON, D. C.—Specifications and bidding sheets for furnishing the metal work of two 60-ft. span steel highway bridges, f. o. b. cars at manufactuerer's shipping point, are on file at office of Engineering News, New York. Bids are asked by the U. S. Reclamation Service until May 15. (Advertised, Engineering News.)

Gen. Alexander Mackenzie, Ch. Engrs. U. S. A., has approved plans for reconstruction of pier No. 1 of Aqueduct bridge, for which $80,000 has been appropriated by Congress.

CHARLESTON, W. VA.—The Kanawha Bridge & Terminal Co. has let contract to D. MINATTI for constructing abutments and piers of Kanawha River bridge, between West and South Charleston.

MONTGOMERY, W. VA.—The Montgomery Bridge Co. has been incorporated with capital of $100,000 to construct bridge across Kanawha River. George Love, O. J. Henderson and associates are interested.

EDENTON, N. C.—The Norfolk & Southern Ry. Co. has let contract to the McLEAN CONTRACTING CO., 902 Maryland Trust Bldg., Baltimore, Md., for erecting pile and timber trestle six miles long between Mackey's Ferry and Edenton. The trestle will require 14,000 piles and 4,000,000 ft., B. M., of lumber and 12 months to complete. Estimated cost, $500,000. F. L. Lake, at Berkeley, Va., is Super. Bridges and Bldgs.

SAVANNAH, GA.—A bridge may soon be erected across Ogeechee River at King's Ferry.

PENSACOLA, FLA.—Plans and specifications for erecting steel bridge across Little Bayou, near Pensacola, are on file at office of Engineering News, New York. Bids are asked until June 4. (Advertised, Engineering News.)

MONTGOMERY, ALA.—D. Cook is reported to have secured contract for constructing bridge over Alabama River for $5,000.

SHREVEPORT, LA.—Shreveport and Bossier jointly are considering erection of drawbridge at foot of Crockett St. Estimated cost, $200,000. W. E. Martin, Shreveport, is City Engr.

NASHVILLE, TENN.—Davidson County will construct two steel bridges across Cumberland River. Estimated cost, $800,000. H. M. Jones is Engr.

FRANKFORT, KY.—Kentucky Highlands R. R. Co. proposes to construct bridge across Kentucky River, besides a number of smaller bridges and culverts. S. S. Bush, Louisville, Ky., is Pres. Construction offices are at Versailles, Ky., managed by C. D. Lemkuhl, Supt. of Const., and A. A. Bond, Ch. Engr.

COLUMBUS, OHIO.—Bids are asked by the County Commissioners until noon, May 12, for the following work: Engineer's estimate No. 722, roadways and approaches; No. 723, substructure, No. 724, superstructure, etc., and No. 725, roadway, sidewalk and concrete encasing on superstructure of Leonard Ave. viaduct in Marion Township; No. 729, constructing new floor system on Dublin Ave. bridge over Olentangy River in City of Columbus; No. 739, constructing approaches, etc., to Chillicothe Pike bridge over Big Walnut Creek, Hamilton Township; No. 740, raising and dressing roadway on approaches to Frank Road bridge over Scioto River, Marion and Franklin Townships; No. 741, concrete culvert and approaches on Jackson Pike at McDonald farm, Jackson Township. W. C. Cussino is County Audr.

MARIETTA, OHIO.—Bids will soon be asked by the County Commissioners for constructing bridge across Duck Creek.

UPPER SANDUSKY, OHIO.—Bids are asked by J. N. Traxler, County Audr., until 1 p. m., May 10, for furnishing material and constructing one steel bridge superstructure and repairing stone abutments of Keller bridge across Sandusky River in Antrim Township and of Joe Best bridge in Mifflin Township.

BRYAN, OHIO.—The County Commissioners have awarded contracts for erecting bridges as follows: The BROKVILLE BRIDGE CO., Farnham, O'Neal, Ritter, Shambarger, Glover, Johnson, Brown, Replogle and East Grisier superstructures, and North Montpelier, substructure, at $19,764. The CENTRAL CONCRETE & CONSTRUCTION CO., Reese superstructure, at $3,936. The TOLEDO-MASSILLON BRIDGE CO., Toledo, Ohio, Umbenhaur and North Montpelier superstructures, at $6,850. J. K. CAMPBELL, Bible, Brown and Replogle substructures, at $6,049.

ELYRIA, OHIO.—Bids are asked by the Board of Public Service, Rose Moriarty, Clk., until noon, May 6, for constructing two stone bridges. Both bridges to be constructed across east branch of Block River, one at Fourth St. and other at Broad St. C. M. Theobald is City Engr.

COLUMBUS, IND.—Bids will soon be asked by the Commissioners of Bartholomew and Shelby Counties for erecting bridge across Haw Creek at county line.

TIPTON, IND.—Bids are asked by the County Commissioners until 2.30 p. m., May 6, for repairing and extending Louck's bridge. The work includes one new span. J. F. Barlow is County Audr.

ROCKPORT, IND.—Plans and specifications are being prepared by the Cleveland Engineering Co., Cleveland, Ohio, for constructing bridge across Ohio River at Rockport for the Owensboro & Rockport Terminal & Bridge Co., recently incorporated to build a line between this city and Owensboro, Ky.

WOODBURN, IND.—The County Commissioners April 10 let contract to the ATTICA BRIDGE CO., Attica, Ind., for constructing 170-ft. span steel bridge across Maumee River at this place, for $9,980.

WABASH, IND.—Contract for constructing seven bridge abutments has been let to JOS. R. HOOVER, Bunker Hill, Ind., for $3,000. W. S. Davis is County Audr.

COLDWATER, MICH.—A steel bridge with concrete floor will soon be erected across Coldwater River in Section 26.

CHIPPEWA FALLS, WIS.—The WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis., has been awarded contract for erection of two bridges across Duncan Creek in Irvine Park, at $10,000. Bridges will be 50 and 60 ft. long, constructed wholly of steel, with plank flooring.

MILWAUKEE, WIS.—Bids are asked by the Board of Public Works until 10.30 a. m., May 10, for constructing bascule bridges across South Menomonee Canal, at Sixth St. Charles G. Poetsch is City Engr.

ELKADER, IOWA.—The County Board has decided to build 150-ft. span across Poney Creek. The Board favors a concrete abutment, as the material is conveniently at hand.

DES MOINES, IOWA.—Bids will soon be asked by the Board of Public Works for constructing Locust St. bridge. Estimated cost, $90,000. George D. Dobson is City Engr.

FORT DODGE, IOWA.—Contract for constructing cement bridge has been let to N. H. STARK, of Des Moines.

BLAKELEY, MINN.—A bridge will probably be erected at this place. Estimated cost, $10,000.

LEAVENWORTH, KAN.—Bids are asked until noon, May 6, by J. W. Niehaus, County Clk., for constructing concrete culvert, Fairmount Township. Edward Jones is County Engr.

MITCHELL, S. DAK.—The County Commissioners have let contracts to the IOWA BRIDGE CO. for constructing two bridges, at $3,300.

FORMAN, N. DAK.—A steel bridge, 26-ft. span, piles to nine ft. above ground, and driveway 16 ft. wide, is to be erected over Wild Rice River. R. Prirving is County Audr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements, A. J. O'Reilly, Pres., until noon, May 21, for (A) removing present superstructure and furnishing and erecting new steel superstructure for portion of 18th St. bridge, extending from south abutment to pier located about 470 ft. north of abutment, and (B) constructing reinforced concrete and wood block flooring for (A). Charles M. Talbert is C. E., Bd. Pub. Impvts.

CASHMERE, WASH.—I. J. BAILEY & CO. have been awarded by the County Commissioners contract for constructing steel bridge at this place for $6,874. John Godfrey is Clk.

MONITOR, WASH.—The County Commissioners, John Godfrey, Clk., have awarded contract for erecting steel bridge at this place to I. J. BAILEY & CO., at $3,995.

ANACORTES, WASH.—The contract has been awarded by the County Commissioners to the INTERNATIONAL CONTRACT CO., for $38,975, for construction of steel bridge over Swinomish Slough, which divides Fidalgo Island and Anacortes from the mainland.

SAN ANDREAS, CAL.—Bids are asked by A. W. Poe, County Clk., until 1 p. m., May 7, for constructing 160-ft. span steel bridge with concrete piers across Mokelumne River near Comanche.

SANTA ROSA, CAL.—The City Council has let contract for constructing steel bridge across Santa Rosa Creek, at Main St., to the HEALY-TIBBITTS CONSTRUCTION CO., at $11,260. L. E. Ricksicker is City Engr..

EMPIRE, NEV.—The Brunswick bridge, near the Brunswick mill, at Empire, has been destroyed by flood. The County Commissioners have taken up the matter of having the bridge rebuilt.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

SPRINGFIELD, MASS.—The Phelps Publishing Co. will construct a 6 or 8-story reinforced concrete building, occupying a large rectangle bounded by Worthington and Water Sts., a wide street that will replace part of North Church Ave. and Broadway, a thoroughfare to be opened between Worthington and Bridge Sts., where Cook's Ave. now is, with the expectation that it will eventually be constructed through to Court Sq. The tentative plans call for a structure containing over 2,500,000 cu. ft., and about 225,000 sq. ft. of floor area. The first floor will be on the sidewalk level, and will be devoted to stores and offices. The floors above, so far as they are not required by the business of the Phelps Publishing Co. and its allied interests, will be leased for offices, show-rooms and light manufacturing. Herbert Myrick is Pres.; F. S. Hinds, 19 Milk St., Boston, is Arch.

SALEM, MASS.—Bids are asked until May 9 by the County Commissioners, for constructing a 2-story fireproof granite building for the Registry of Deeds. Cost of building, $300,000; equipment, $100,000. Wallace Bates is Chn.; Clarence Blackall, 20 Beacon St., Boston, is Arch.

NEW YORK, N. Y.—The following bids were received April 16 by John W. Brannan, Pres. Bd. Trustees, Bellevue and Allied Hospitals, for excavation, mason, steel, carpenter, electric, heating and ventilating, and other work for the pathological department and male dormitory of the new Bellevue Hospital, situated on First Ave. and bounded by 26th and 29th Sts., Borough of Manhattan: Kelly & Kelley, 45 East 42d St., $715,300; M. Reid & Co., 207 West 24th St., $730,389; Thomas B. Leahy Building Co., 1 East 42d St., $765,939; D. J. Ryan, 723 Third Ave., $860,900; T. T. Nesbitt Co., 116 Nassau St., $719,750; R. E. Heningham, 1 Madison Ave., $754,439; Clarke & Stowe, 221 Greenpoint Ave., $747,000; Thomas Cockerill & Son, 147 Columbus Ave., $698,400; Buckley Realty & Construction Co., 59th St. and Madison Ave., $725,000; George Hildebrand, 38 Park Row, $779,000; John H. Parker Co., 225 Fourth Ave., $726,785.

NEW YORK, N. Y.—We are officially advised that Harde & Short, Archs., 3 West 29th St., have let general contract to the DAYTON CONSTRUCTION CO., 437 Fifth Ave., Walter Russell, Pres., 15 West 67th St., for an apartment building with studios and large banquet hall, on the south side of 77th St., 150 ft. east of Columbus Ave., for the Walter Russell Bond & Realty Co., 437 Fifth Ave. The building will have 14 stories and will be 100 × 82 ft., light brick, limestone, marble and terra cotta, structural steel and iron, fireproof construction with marble treads, electric wiring, ornamental iron balconies, electric light plant and two elevators. Estimated cost, $750,000.

The Board of Estimate has awarded to the JOHN PIERCE CO., 277 Broadway, the contract for all the interior work and fittings of the New York Public Library, 42d St. and Fifth Ave., at $3,133,000. A complete list of bidders was given in Engineering News, April 18.

Plans have been filed with the Buildings Superintendent for an 11-story apartment house to be erected at the corner of Lexington Ave. and 67th St., for the Nine Hundred and One Lexington Ave. Corporation, of which Walter G. Merritt, 27 William St., is Pres. The structure will have a frontage of 90.5 ft. and a depth of 59 ft., and will have accommodation for 17 families. It is to cost $275,000. Rossiter & Wright, 110 East 23d St., are Archs.

NEW YORK, N. Y.—We are officially advised that George F. Pelham, 503 Fifth Ave., has plans for an apartment building, at the corner of 118th St. and Morningside Ave. for the West Side Construction Co., 321 West 91st St. The building is to have six stories, and will be 100 × 102 ft., of brick, limestone and terra cotta, structural steel and iron construction, with tin roof, iron stairs, electric and gas fixtures, etc. Cost, $175,000.

A 20-story building is to be erected on the lot at 15, 17 and 19 Maiden Lane, running through to 18 and 22 John St., owned by Edward Holbrook, Pres. of the Gorham Mfg. Co. The old 5-story buildings now on the site are to be torn down within the next few weeks, and the new building is to be ready for occupancy in May, 1908. Ground and building, the operation will represent an outlay of $2,000,000.

John E. Olson, 39 West 25th St., will erect a 12-story mercantile building at the corner of Spring and Crosby Sts., lot 100 × 100 ft., which has been leased to a company which will use the building for its own business.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 6, by C. B. J. Snyder, Supt. School Bldgs., for installing heating and ventilating apparatus in Public School No. 27, on 41st and 42d Sts., near Third Ave., Boro. of Manhattan; for erecting outside iron stairs at Public School No. 106, on Lafayette St., near Spring St., Boro. of Manhattan; for alterations and repairs to Public Schools Nos. 20, 27, 28, 31, 44 and 79, Boro. of Queens; for installing heating and ventilating apparatus in Public School No. 68, Bergen Ave., Boro. of Queens; for general construction to Public School No. 19, Greenleaf Ave., Boro. of Richmond; for construction of additional story to Public School No. 80, West 17th St., Boro. of Brooklyn; for installing heating and ventilating apparatus in Public School No. 114, Canarsie, Boro. of Brooklyn.

BRYN MAWR, PA.—J. S. CORNELL & SON, Land Title Bldg., Philadelphia, have been awarded a contract to construct a residence at this town for W. Hinckle Smith. It will be built of brick, four stories high, and will cost $750,000.

PITTSBURG, PA.—The contract to erect the St. Francis Hospital has been awarded to THOMAS REILLY, 1616 Thompson St., Philadelphia. The building is to be of reinforced concrete and brick with cut stone trimmings and is estimated to cost $570,000.

Rutan & Russell, Archs., 255 Fifth Ave., have prepared plans and will take bids at once for a bank building, to be erected at Fifth Ave. and Wood St., for the First National Bank. The structure is to be 75 to 80 ft. high, of granite, with marble and tile work, structural iron and steel, terra cotta, electric light fixtures, water closets, steam heat. Cost, $500,000.

ALLEGHENY, PA.—Thomas Hannah, Arch., Diamond Bank Bldg., Pittsburg, has completed plans for an 8-story store and office building to be erected by the Real Estate Savings and Trust Co., in Federal St., near Park Way, Allegheny, at an approximate cost of $160,000.

PHILADELPHIA, PA.—Contract for constructing the Lafayette Building, at Fifth and Chester Sts., for the Stephen Girard Estate, has been awarded to JACOB MYERS & SONS, Witherspoon Bldg., Philadelphia. The structure will be built of brick, steel and terra cotta, ten stories high, 106 × 164 ft., and will cost $1,240,000.

Plans are being prepared by Cope & Stewardson, Archs., 320 Walnut St., for a building at 16th and Arch Sts., for the Franklin Institute. The building will be of brick and terra cotta construction, five stories high, and will cost $300,000.

PHILADELPHIA, PA.—Bids are asked until 3 p. m., May 13, by James Knox Taylor, Superv. Arch., for installing a high pressure steam boiler plant and accessories at the U. S. court-house and post-office buildings, at Philadelphia. (Advertised, Engineering News.)

BALTIMORE, MD.—The Board of Trustees of the Sheppard and Enoch Pratt Hospital are reported to have awarded contract to JOHN COWAN, 106 West Madison St., for construction of several additional buildings on its grounds near Towson, Md. The buildings are as follows: Dining-room, two stories, 52 × 130 ft.; kitchen, two stories, 32 × 40 ft.; bakery, two stories, 29 × 66 ft.; all are of brick, with stone trimmings, steel-frame construction, fireproof, electric wiring and fixtures, sanitary plumbing, steam heating system, elevators. Cost, $125,000. Charles E. Cassell & Son are Archs., Law Bldg., 225 Courtland St. John C. Davis is Pres. Trustees, Chamber of Commerce Bldg.

WASHINGTON, D. C.—FISSELL & WAGNER, Home Life Bldg., have secured the contract for constructing a brick and stone college building for the Paulist Fathers. Estimated cost, $400,000.

RALEIGH, N. C.—Grand Lodge of Masons has awarded contract to CENTRAL CAROLINA CONSTRUCTION CO., Greensboro, N. C., for erection of building, according to plans of Charles McMillen, Arch., Wilmington, N. C. The building will have seven stories and basement, skeleton reinforced concrete construction, concrete slab flooring, tile roof for roof garden, fireproof, stairways, of reinforced concrete; partitions of hollow tile; exterior faced with buff Indiana limestone up to sill of third floor and with Columbus light buff brick above this line; ornamental capitals and entire cornice and coping of stone-colored terra cotta; basement provides for boiler and machinery room, safety deposit room for bank, etc., equipped with low-pressure steam heating plant, gravity system, modern plumbing, two electric passenger elevators, etc. Cost, $130,000. John C. Drewry, Raleigh, is a Member of Com.

JACKSONVILLE, FLA.—Bids are asked until May 10 by the Atlantic & East Coast Terminal Co. for construction of office and freight buildings at Jacksonville. We are officially advised that the buildings will be constructed of brick with tile roofing and steel rolling doors. J. W. Richardson, Dyal-Upchurch Bldg., Jacksonville, is Engr.-in-Charge.

MONTGOMERY, ALA.—Bids are asked until May 9 for constructing the Gay-Teague Hotel, to be erected at Bibb and Commerce Sts., for the Gay-Teague Realty Co., at a cost of about $275,000.

FORT MORGAN, ALA.—Plans and specifications for improvements of barracks and other parts of reservation at Fort Morgan, damaged by September hurricane, have been received by United States Engineers. The work will involve the exp[illegible]e of $500,000. Among the improvements [illegible] be a seawall 8 ft. thick surrounding th[illegible]fications and reservation.

CHATTANOOGA, TENN[illegible] are asked until May 1, by the Cha[illegible]ga. Terminal Co., for constructing a pa[illegible]r station to cost about $500,000.

CINCINNATI, OHIO.—E[illegible] & Anderson, Archs., Ingalls Bldg., have [illegible]e following contracts for an 8-story pr[illegible]ick and reinforced concrete warehous[illegible] erected at Eighth and Walnut Sts., f[illegible]s & Meiss, 318 Race St.: Masonry, [illegible] HUMMEL BUILDING CO., 2629 Spr[illegible]rove Ave.; carpenter work, M. MAR[illegible] BUILDING CO., 1513 Plum St. Cost, $1[illegible]

An apartment building of [illegible] rooms is to be erected by the Guarant[illegible]ity Co., of Cincinnati at the corner o[illegible]McMillan St. and Kemper Lane, Walnut [illegible] The company has just been forme[illegible]e incorporators being: Joseph M. B[illegible] Joseph T. Carew, Joseph C. Blacker, W[illegible] S. Fisher, Sol. H. Freiberg, William H[illegible]ley, Joseph H. Rhodes, L. A. Staley, J[illegible] G. Steinkamp, L. F. Walter, William [illegible]lker Smith, Jr. The latter is Atty. fo[illegible] company. The building will have a fro[illegible]e of 180 ft. on McMillan St. and 250 [illegible] on Kemper Lane. There will be an entr[illegible] way to the structure, 60 × 125 ft. in [illegible] form of a court. On the McMillan St. [illegible]e there will be a court of the arcade typ[illegible] A cafe and garage, with all modern equ[illegible]ent, will be part of the arrangements of the building. Joseph Steinkamp & Bro., Mercantile Bldg., are Archs.

INDIANAPOLIS, IND.—Fol[illegible] & Parker, Union Trust Bldg., are prepar[illegible] plans for a building for the Y. M. C. A., to cost $250,000. W. H. Godard, North Illinois St., is Secy.

DETROIT, MICH.—John Kay and Wallace Franklin, of the firm of Westinghouse, Church, Kerr & Co., are reported to be interested in erecting an arcade at Bagley Ave., Park St. and Washington Boulevard which will cost about $1,500,000, and for which plans are now being prepared.

Malcomson & Higginbotham, 405 Moffat Bldg., have revised the plans for an addition to the Central High School building, and proposals for erection will be advertised for in a few days. The school is to be two and three stories, 80 × 300 ft., of fireproof construction, press brick, sandstone, with metal skylights, electric light fixtures, best open plumbing, hard plaster. Estimated cost, $250,000. William J. Lee is Secy. Board of Education, 50 Broadway, Indianapolis.

HIGHLAND PARK, MICH.—Stratton & Baldwin, 1103 Union Trust Bldg., Detroit, have awarded contracts for constructing St. Francis' Orphanage, Highland Park, as follows: General contract, the VINTON COMPANY, 126-146 Woodbridge, East Detroit; roofing and sheet metal, VOIGT & TEXANER, 146-148 Sherman St., Detroit; plumbing and heating, HARRIGAN & REID, 70-72 State St., Detroit. Cost, $160,000.

ROCK ISLAND, ILL.—The Rock Island Safety Deposit Vault Co. has awarded the contracts for a 6-story fireproof reinforced concrete office building to E. E. BROWN & CO., Chamber of Commerce Bldg. Estimated cost, $150,000. O. Z. Cervin, Hessel Bldg., Moline, is Arch.

CHICAGO, ILL.—THE WELLS BROS. CO., 1014 Monadnock Block, has been awarded the general contract for a modern theater to be built at West Madison and Green Sts., for Hyde & Behman Amusement Co., 44 Court St., Brooklyn, N. Y. It will be of fireproof steel construction with brick and stone exterior, reinforced concrete floors, steel trusses, iron stairs, mahogany finish, fire escapes ornamental marquise, wiring for electric light, modern plumbing, marble and mosaic work, high pressure heating plant, pipe covering, general stage equipment and sprinkler system. It will cost about $250,000. Dodge & Morrison, 82 Wall St., New York, and Francis M. Barton, Royal Insurance Bldg., are Associate Archs. The contract work has been let to JOHN EICHER, Pittsburg, Pa.

The Sisters of Mercy, who conduct the Mercy Hospital at Calumet Ave. and 26th St., have had plans prepared by Egan & Prindiville, 85 Dearborn St., for a 4-story addition to the hospital. Estimated cost, $200,000.

DULUTH MINN.—The Great Northern R. R. Line will erect a freight station at Michigan St. and Sixth Ave. West, to cost $200,000. A. H. Hogeland, St. Paul, Minn., is Ch. Engr.

OMAHA, NEB.—A 10-story dry goods building of brick and stone, to cost about $250,000, will be built by Hayden Bros. on their property at the corner of Tenth and Dodge Sts., at once. The property is 132 ft. square, and the building will occupy the entire space. The 3-story warehouse which is now located there will be torn down to give way for the new structure.

LINCOLN, NEB.—We are officially advised that the Board of Regents of the University of Nebraska, at Lincoln, recently authorized the expenditure of $100,000 for a new mechanical laboratory building. It is expected that plans will be developed so that construction work can be commenced in the fall. E. Benj. Andrews is Pres.

ST. JOSEPH, MO.—Eames & Young, Lincoln Trust Bldg., St. Louis, and E. J. Eckel, Commercial Bldg., St. Joseph, have prepared plans for an 8-story hotel building, to cost $300,000.

ST. LOUIS, MO.—Mauran, Russell & Garden, Chemical Bldg., are preparing plans for building to be erected on property owned by the J. G. Chapman estate. The site is 50 × 150 ft., and the building will be 8-story reinforced concrete, with steam heat, sprinkler system, electric passenger and freight elevators. Cost, $150,000.

The Lean-Gould Advertising Co. has selected a site at Washington Ave. and Charles St. on which it is proposed to erect an 8-story building to cost about $150,000.

LITTLE ROCK, ARK.—Charles L. Thompson, Arkansas [illegible] Bldg., has prepared plans for a 4-story basement and attic convent, 200 × 100 ft., to be erected at Pulaski Heights, for the Sisters of Mercy. The structure will be built of brick and stone with galvanized iron cornices, plate glass, marble and tile work, hard plaster, tin roof, architectural and structural iron and steel work, gas and electric fixtures, cabinet mantels and steam heat. Cost, $25,000.

HOT SPRINGS, ARK.—CLARK & THALMAN, of Little Rock, have secured the contract for constructing a high school building at Hot Springs. The cost will be about $110,000 and the building will contain 24 class rooms. It will be four stories in height, ornamented by four domes. J. W. Golucke & Co. are Archs., Temple Court, Atlanta, Ga.

DENISON, TEX.—JAMES STEWART & CO., Lincoln Trust Bldg., St. Louis, Mo., have contract to erect proposed $300,000 union depot for the Missouri, Kansas & Texas Ry. Co. F. W. Bailey is Supt. Bridges and Bldgs., Denison.

SAN ANTONIO, TEX.—George Danks, 324 Mermod & Jackard Bldg., St. Louis, Mo., is preparing plans for an 8-story hotel, to be erected at San Antonio, at a cost of $500,000.

OKLAHOMA, OKLA.—The Oklahoma City Ry. Co. is having plans and specifications prepared for an office building to cost about $300,000. The contract for construction work will be let soon. Charles W. Ford is Gen. Supt., Oklahoma.

SEATTLE, WASH.—CAWSEY & LOHSE, Washington Bldg., have been awarded contract for erecting a 5-story store at Second Ave. and Pike St., to cost about $250,000. J. M. Corner, Alaska Bldg., is Arch.

SPOKANE, WASH.—D. C. Corbin, Pres. of the Spokane International R. R. Co., is having plans prepared for a 7-story structure at Main Ave. and Washington St., where he has a site, 100 × 142 ft. The structure will cost $200,000.

The Union Trust Co. is reported to have secured a site at Riverside Ave. and Stevens St., on which it is proposed erecting a building ten or twelve stories high, costing about $400,000. J. C. Cunningham is Secy.

SAN FRANCISCO, CAL.—A 6-story Class A brick and stone building of classic design, containing 125 rooms with baths, will be erected on the corner of O'Farrell and Hyde Sts. by Frank Carolan within the next six months. The exterior of the building will be of Harvard red bricks, trimmed with highly colored stone and marble. The lower floor will have a large lobby, reading room and office. The building will be used for hotel purposes and will be equipped with all the latest appliances. A fast running elevator will be installed. The cost when completed will be about $150,000. Edward J. Vogel is Arch.

Frank Shea, City Arch., 1525 Post St., has completed plans for the proposed new Polytechnic High School building, to be located on a site in the block bounded by First Ave., Frederick, Willard and Carl Sts. The building will cost $175,000 when completed. It will be three stories high and contain an auditorium seating 1,500 people. The entire grammar department will be located on the ground floor and be immediately accessible to the manual training department in the basement. The mechanical drawing-room will have tables for 75 pupils and will be equipped with blue printing appliances and other necessary apparatus. In the shops there will be 25 forges, with as many anvils. The machine shop projects in front of the building proper, as does the woodworking shop in the west side with benches and lathes for 25, as well as all necessary machinery. The carpenter shop will have the usual equipment. On the main floor will be situated the science department, consisting of physical and chemical laboratories and a large science lecture-room. The second floor will be given up wholly to class-rooms of the high school, and the entire third floor will be taken up by the art department, industrial and domestic. On the north side of the building will be the freehand drawing-rooms, etc. There will be two fully equipped gymnasiums, with handball and basketball courts. The theater will have a stage 30 × 56 ft., fitted with necessary appurtenances.

BERKELEY, CAL.—The Board of Regents of the University of California at its meeting recently voted to begin at once the erection of a new library building. The plans of John Galden Howard were submitted and approved. They call for a fireproof structure of white granite like that of California Hall. The new structure will cost $575,000 and will be paid for by the Charles Franklin Doe estate. The building will be located between the North Hall and California Hall.

STOCKTON, CAL.—Plans for an 8-story building for the Stockton Savings & Loan Society Bank have been prepared, and bids will be advertised at once for the construction of the $200,000 building. The main entrance will be at the corner of San Joaquin and Main Sts. Electric elevators will be installed and the building will be lighted by electricity and heated by steam.

MONTREAL, QUE.—The authorities at McGill University are having plans prepared for the rebuilding of the engineering building recently destroyed by fire, at a loss of $420,000 for building and $350,000 for equipment. W. Peterson is Principal.

TORONTO, ONT.—The Manufacturers' Life Assurance Co. proposes to erect a 14-story fireproof structure on the corner of Bay and Melinda Sts., at a cost of $600,000.

CALGARY, ALTA.—Bids are asked until May 1 by the City Council, for constructing City Hall and police headquarters. F. W. Thorold is City Engr.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—The Augusta Water District will lay 5,300 ft. of 10-in. water main to the Maine Insane Hospital. W. B. Getchell is City Engr.

PROVIDENCE, R. I.—FRED. A. SHAW has secured contract for laying pipes for extension of high pressure service of the water department. Otis F. Clapp is City Engr.

ALBANY, N. Y.—The Board of Contract and Supply has awarded to the EDDY VALVE CO., of Waterford, N. Y., contract for furnishing valves for preliminary filters for the city's water supply system, for $13,600. The contract for furnishing cast-iron water pipes and special castings for the preliminary filters was awarded to the UNITED STATES CAST-IRON PIPE & FOUNDRY CO., 71 Broadway, New York, for $6,946. Wallace Greenalch is Supt. Water Bureau. The itemized prices of Eddy Valve Co.'s bid are as follows: One 48-in. gate valve with hub, $560; one 36-in. gate valve with hub, $300; two 30-in. gate valves with flanges, $220; one 20-in. gate valve with flanges, $80; two 18-in. gate valves with flanges, $130; 16 16-in. gate valves with flanges, $110; 16 12-in. gate valves with flanges, $85; 16 16-in. water valves, $120; 16 12-in. water valves, $95; 16 12-in. regulating valves with floats, etc., $300. Walter Melius is City Engr.

UTICA, N. Y.—Bids are asked by the Consolidated Water Co. of Utica, No. 234 Genesee St., until 2 p. m., April 27, for furnishing material and laying 20-in. c.-i. water pipe for Western Division of Broad St. main.

CARTHAGE, N. Y.—Bids are asked by the Board of Water Commissioners, P. R. Wrape, Pres., until noon, May 6, for constructing 12-in. conduit line 14⅔ miles long, intake, reservoir, dam and gate house. Eaton & Brownell are Engrs. (Advertised, Engineering News.)

DUNKIRK, N. Y.—The Atlas Engine Works, of Indianapolis, Ind., are reported to have secured contract for installing two 300-HP. water tube boilers at water works plant, for $8,710. L. N. Murray is City Clk.

NEW YORK, N. Y.—The lowest bid opened April 10 by John H. O'Brien, Comr. Water Supply, Gas and Electricity, for furnishing and driving or sinking deep or shallow wells at Oconee, Baiseleys, Springfield and Watts Pond Pumping Stations, Long Island, was submitted by Grant Rohrer, 299 Bway., as follows: 8,900 ft. 8-in. wrought iron pipe to furnish and drive, $3.63; 40 ft. 6-in. wrought iron drop sections, etc., $50; 420 ft. 6-in. wrought iron pipe, furnish and set, etc., $2; 40 brass strainers, $150; total,, $41,147. Totals of the other bids were: I. Harris Co., 485 Flatbush Ave., $54,350, and P. H. & J. Conlin, Long Island City, $47,875. For wells at Woodhaven, Shetucket, Watts Pond, Lynbrook and Rockville Center Pumping Stations, Long Island, I. Harris Co. bid $38,512 and T. H. & J. Conlin, $33,555.

The following are the totals of bids opened same time and place for wells: (a) sinking shallow wells and laying suction mains and appurtenances at Canarsie Pumping Sta.; (b) sinking shallow wells and laying suction mains and appurtenances at Gravesend Pumping Sta.; (c) furnishing and driving deep wells at the Spring Creek Pumping Sta.: McHarg Barton Co., 299 Broadway, N. Y. City, (a) $26,825, (b) $24,505; Isaac Harris Co., 485 Flatbush Ave., (a) $12,495, (b) $8,879, (c) $12,211.

OLD FORGE, N. Y.—Bids will soon be asked by the Village Clerk for construction of water-works, for which the citizens voted to issue bonds amounting to $15,000. Francis K. Baxter, 46 Arcade Blk., Utica, is Engr.

BURLINGTON, N. J.—Bids are asked by the Board of Water Commissioners until 3 p. m., June 5, for constructing mechanical filter plant, having capacity of 3,000,000 gallons per day. George A. Allinson, Supt. (Advertised, Engineering News.)

McKEESPORT, PA.—Bids are asked by C. E. Soles, City Controller, until 2 p. m., April 30, for improving water supply system. See advertisement for detailed improvements. Alexander Potter, 143 Liberty St., New York, is Engr. (Advertised, Engineering News.)

AUSTIN, PA.—Contract for constructing system of water-works has been let to J. C. SWANSON, Jamestown, N. Y. H. D. Caskey is Clk.; J. F. Witner, Buffalo, N. Y., is Engr.

HANCOCK, MD.—Arthur Giesler, Consult. Engr., 29 Broadway, New York, is preparing plans for a water-works system to be constructed at Hancock, for which a franchise was granted him about a month ago. The construction will be undertaken by a company to be formed, of which Mr. Giesler will be Pres. and H. B. Bridges, Calvert Bldg., Baltimore, Md., Secy.-Treas. and Atty. The supply of water will be taken from springs in the vicinity of Hancock and will have a capacity of 500,000 gallons a day. A reservoir is to be constructed on a hill here, upon a site donated by Frank Little, of Hancock. The reservoir will be constructed at an elevation capable of operating the system at a pressure of 80 lbs. One pumping station will be erected, and it is proposed to use turbine pumps in connection with steam turbines. Work will be started in the summer.

NORFOLK, VA.—Bids will soon be asked for laying water main in Seventh Ward. George W. Wright is Ch. Engr. Water Dept.

ROMNEY, W. VA.—Bids are asked by the School for the Blind until June 19 for construction of water main, 2½ miles long, reservoir, water-works and sewerage system, for which $13,000 has been appropriated by the legislature.

SPARTANBURG, S. C.—City has engaged J. M. Ludlow, Winston-Salem, N. C., to make surveys and estimate cost of installing water-works.

CEDARTOWN, GA.—The Woodstock Iron & Steel Corporation has leased and will develop the "Cherokee" mine. It will build ore washer, install pumping station on Cedar Creek, lay pipe line to supply water, install modern steam shovel and other equipment. J. M. Barr is Pres., Norfolk, Va.; J. B. Carrington is Gen. Mgr., Woodward Bldg., Birmingham, Ala.

JACKSONVILLE, FLA.—Bids are asked by the Trustees for the Water-Works and Improvement Bonds, B. F. Dillon, Chn., until May 6, for sinking 10-in. artesian well 980 ft. deep with casing to a depth of 500 ft. Philip Prioleau is City Engr.

TALLAHASSEE, FLA.—Council has directed plans to be prepared for constructing water system.

LAKE CHARLES, LA.—The North American Land & Timber Co. has purchased the Indian Bayou canal and 6,000 acres of rice land in Calcasieu Parish. It will enlarge and improve the pumping plant on Indian Bayou in order to furnish enough water to irrigate at least 10,000 acres of land, which will include the 6,000 acres just purchased and 4,000 acres additional now owned. Work upon the new canal connecting Sweet Lake with Lake Misere is progressing. The plants now controlled by the company on Indian Bayou, Sweet Lake and Chloe are capable of watering about 25,000 acres this year.

TREZEVANT, TENN.—W. G. Ware, Secy. of the Business Men's Club, is engaged in perfecting preliminary steps for constructing water-works. The work will be commenced at an early date.

EAST PALESTINE, OHIO.—The citizens have voted bonds amounting to $5,500 for extending water mains.

ASHTABULA, OHIO.—The Walter P. Rice Engineering Co., Cleveland, Ohio, is preparing plans for improvement of city water system. Louis A. Amsden is City Engr.

RUSHVILLE, IND.—Bids are asked by S. G. Gregg, City Clk., until 7.30 p. m., April 30, for furnishing and erecting in the City Water and Light Plant two water tube type boilers, 250 HP. each. Alonzo L. Stewart is City Engr.

PRINCETON, MICH.—See under Sewerage.

MONTICELLO, IND.—Contracts for construction of the C. M. Mertz ditch, in Cass, Jackson and Union Townships, have been let as follows: Tile and team work, WRIGHT & GIBSON, Idaville, Ind., $3,033; dredge work, J. P. KARR, Logansport, Ind., $6.89 per yd. J. L. Ackerman is County Audr.

ELGIN, ILL.—The LYNCHBURG FOUNDRY CO., 220 Broadway, New York, has been awarded contract to furnish 12 and 16-in. cast-iron pipe at $34.50, 6-in. pipe at $36 per ton, and $59.50 per ton on special orders. Henry Dakin is City Engr.

IOWA FALLS, IOWA.—The Council is preparing to extend water mains several thousand feet.

DIKE, IOWA.—A water-works system may be constructed. Estimated cost, $5,000.

WEBSTER CITY, IOWA.—The water mains will be extended.

NEW HAMPTON, IOWA.—MOSS & JACKSON, of Des Moines, have been awarded contract for erecting steel tower and tank, at $4,654.

SIOUX CITY, IOWA.—The Board of Water-Works Trustees April 12 awarded contract for installing two boilers at Main St. pumping station to VINCENT KENNEY, of Omaha, Neb., at $7,000. J. M. Lewis is City Engr.

ALBERT LEA, MINN.—Contract for construction of main ditch and laterals of Judicial Ditch No. 1 has been let to the FRANCE DREDGING CO., Mansfield, Ohio, for $114,134. C. E. Brainerd is County Audr.; J. W. Dappert, Taylorville, Ill., is Engr.

ZUMBRO FALLS, MINN.—Bids are asked until May 3 for construction of water works, consisting of concrete reservoir, pipe line, brick pump house, gasoline engine, pump and well. Oscar Claussen, of St. Paul, is Consult. Engr.

HASTINGS, MINN.—See under Sewerage.

FT. LEAVENWORTH, KAN.—Bids are asked until May 1 by Capt. J. E. Normoyle, Q. M., for constructing one 3-ft. water drain and sewers, drains and water mains at this post.

MITCHELL, NEB.—Plans, specifications and bidding sheets for constructing about 114 miles of lateral ditches, in connection with the North Platte Project, Neb.-Wyo., are on file at office of Engineering News, New York. The work involves excavation of about 650,000 yds. of earth and 14,000 yds. of loose and solid rock. Bids are asked by the U. S. Reclamation Service until May 21. (Advertised, Engineering News.)

GIBBON, NEB.—The Village Board has let contract to GEO. W. CRAIG & CO., of Omaha, at $14,220, for installing system of water-works.

PARKER, S. DAK.—Bids are asked by the Board of County Commissioners until 9 a. m., May 7, for construction of Nilsen, Frederickson, Weeks and Lakings ditches. E. W. Browne is County Audr.

The Board of County Commissioners have let contract to HOGAN & WELCH, Hurley, S. Dak., for constructing Erickson and Reynolds ditches.

BELLE FOURCHE, S. DAK.—Bids are asked by the U. S. Reclamation Service, Belle Fourche, S. Dak., until 4 p. m., May 28, for constructing South Canal, Sections 2-6, and structures, Sections 2-8, in connection with the Belle Fourche Project, S. Dak. The work involves approximately 670,000 cu. yds. canal excavation, 7,200 cu. yds. concrete and 1,295 lin. ft. of tunnel. (Advertised, Engineering News.)

WAHPETON, N. DAK.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m., May 2, for furnishing and delivering material and constructing artesian well at the Indian school, Wahpeton. James C. Clifford, Wahpeton, is Supt.

CODY, WYO.—The Secretary of the Interior has awarded contract to EMANUEL THOMAS, of Byron, Wyo., for construction and completion of Division 16, Garland Canal and laterals, Shoshone Irrigation Project, Wyo., at $5,629. Division 16 consists of 13 miles of canal and 9.1 miles of laterals, and the work involves excavation of 18,100 cu. yds. of materials and 2,000 cu. yds. of overhaul.

W. D. LOVELL, at Minneapolis, Minn., has secured contract for construction and completion of structures on Division 1, Garland Canal, Shoshone Irrigation Project, Wyo., at $50,544. The work consists of headgates, culverts, crossings, bridge abutments, etc.

GLENDIVE, MONT.—The Secretary of the Interior has awarded contract to ARTHUR J. COATES & CO., of St. Cloud, Minn., for construction and completion of about 74 miles of laterals and 29½ miles of waste ditches, in connection with the Lower Yellowstone Irrigation Project, N. Dak.-Mont., at $112,011.

DALLAS, TEX.—Contract for sinking an 8-in. artesian well, 1,500 ft. deep, has been let to R. H. DEERING, Waxahachie, Tex. E. L. Dalton is City Engr.

SAN ANGELO, TEX.—The San Angelo Water-Works Co. may install 3,000,000-gallon pumps, direct connected to steam turbines. W. A. Guthrie is Mgr.

SHAWNEE, OKLA.—W. W. COOK & SON, Junction City, Kan., have secured contract for extending the water-works system. Cost, $24,000. F. D. Brown is City Engr.

PRAGUE, OKLA.—A water-works system may be constructed. Estimated cost, $30,000.

MADILL, IND. T.—Bids are asked by the City Council until May 7 for furnishing pipe, hydrants, valves, tanks and tower, boilers, feed water heater, duplex pumps, boiler feed pumps, deep well pumps, cement, sand, stone, brick and other supplies necessary for constructing complete water-works system. The O'Neil Engineering Co., 845 Wilson Bldg., Dallas, Tex., are Engrs. (Advertised, Engineering News.)

PUEBLO, COLO.—The Orlando Canal & Reservoir Co., of Denver, may construct reservoir and series of canals in Pueblo County. Cost, $135,000.

ROSALIA, WASH.—Contract has been awarded to MATLOCK & WILSON for sinking well that will furnish 60,000 gallons of water a day.

PORTLAND, ORE.—Bids are asked by the U. S. Reclamation Service, Portland, until 2 p. m., July 1, for construction of dam at outlet of Bumping Lake, Wash. The work involves about 182,000 cu. yds. excavation, 960 cu. yds. concrete masonry, 900 cu. yds. riprap and rockfill, and 72 M. ft. B. M. hewn timber.

PORTLAND, ORE.—The following bid was received April 15 by the U. S. Reclamation Service, for excavating Keno Canal, near Klamath Falls, Klamath Project, Ore.-Cal.: Paquot, Giebisch & Joplin, Portland, Schedules 1-4, inclusive, $14,233, $18,759, $17,158 and $12,680, respectively. Total, $62,830. Contract to be awarded for all four schedules or bid to be void. The work consists of about 80,000 cu. yds. of earth and rock excavation. D. C. Henry is Superv. Engr.

BOISE, IDAHO.—Robert Lansdon, State Secy., has transmitted to the Secretary of Interior a joint memorial of the State Legislature, urging that pumping station be installed on the Minidoka Project for irrigation of large area of land on south side of Snake River. In acknowledgment of the memorial, Secretary Garfield stated that it is the purpose of the Reclamation Service to inaugurate a pumping station, but it is not practicable at this time to fix a date for beginning the work. This season 65,000 acres on north side of Snake River will be supplied with water by means of gravity system which has just been completed. The project is therefore on trial, and it is not deemed advisable to extend the work of construction or to largely increase the expenditures of the reclamation fund on this project until the success of the first unit is fully demonstrated. Itemized bids are given this week under Contract Prices.

QUEBEC, QUE.—Bids are asked by J. Gallagher, Water-Works Engr., until April 29, for supplying c-i. pipe and specials, hydrants and valves.

HINTONBURG, ONT.—The Village Council have decided to extend the water-works system at cost of $10,000.

BRANDON, MAN.—The date for receiving bids for supplying about 85 tons 6 and 8-in. c-i. pipe and specials has been extended from May 6 to May 17. Bids are asked by G. R. Coldwell, Chn. Water-Works Com. W. H. Shillinglaw is City Engr.

HAWAII.—Pumping station, reservoir, etc. —See under U. S. Possessions and Cuba.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

SOMERVILLE, MASS. — CHARLES A. KELLEY has been awarded contract for constructing sewer in Somerville Ave., Washington, Hawkins and Lake Sts., and Walnut and Whitfield Roads, at $4,086. Ernest W. Bailey is City Engr.

BOSTON, MASS.—Charles G. Craib & Co., of Winthrop, were low bidders for construction of part of Section 83m extension of high level sewer, South Metropolitan system, Brookline, bids for which were opened by the Metropolitan Water and Sewerage Board, April 5, at $25,500, as follows: 800 lin. ft. earth excavation in tunnel, 5-ft. 9-in. by 6-ft. sewer, at $16 per ft., $12,800; 50 cu. yds. brick masonry, Portland cement in shafts, at $14 per cu. yd., $700; 1,200 cu. yds. concrete masonry, Portland cement in tunnel, at $10 per yd., $12,000. Other bids received were: Patrick McGovern, Boston, $36,100; Bruno, Salomone & Petitte, Boston, $35,100; John F. Gill Co., Somerville, $33,-

470; McHale & Perkins, Boston, $32,965; John W. Dorey & Co., Worcester, $31,100; Coleman Bros., Boston, $29,800; Jones & Meehan, Boston, $27,500.

NEW LONDON, CONN.—The F. M. LADD CO., of this city have been awarded the contract by the Sewer and Water Board for laying 500 ft. 24-in. pipe, 11,350 ft. 20-in. pipe, and construction of tunnel 550 ft. in length, at $24,983. Bids were also submitted by the following: McCay Engineering Co., Baltimore, Md., $26,919; Lucian A. Taylor, Boston, $28,640; Charles F. Taylor & Co., Boston, $28,705; Augusto Benvenuti, New London, $40,748. George K. Crandall is City Surv.

BINGHAMTON, N. Y.—Plans, specifications and bidding sheet for constructing Fourth Ward trunk sewer are on file at office of Engineering News, New York. Bids are asked until May 6. Henry J. Ogden, Ithaca, N. Y., is Consult. Engr. (Advertised, Engineering News.)

ELMIRA, N. Y.—The Board of Public Works April 17 awarded contract for installing Church St. sewer, water and gas services to J. A. & W. S. WALKER. Frederick Leach is City Engr.

BRONXVILLE, N. Y.—Bids are asked until 8.30 p. m., May 3, for constructing additions to sewer system. George H. Rogers, 2,543 Third Ave., New York, is Engr. (Advertised, Engineering News.)

NORTH OLEAN, N. Y.—Bids are asked by the Board of Trustees, John Degnan, Pres., until 7.30 p. m., May 2, for constructing sewerage system and two treatment works. Knight & Hopkins, Rome, N. Y., are Engrs. John F. Donovan is Village Clk. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., May 8, for constructing sewers and sewer basins in various streets, Boro. of Brooklyn.

SUMMIT, N. J.—Bids are asked by the Common Council until 8.30 p. m., May 7, for constructing sewage tank near pumping station near Chatham Road and Passaic River. See advertisement for approximate quantities of work. J. Edward Rowe is City Clk. W. S. Logan is City Engr. (Advertised, Engineering News.

PATERSON, N. J.—Bids will soon be asked by John T. Brett, Street Comr., for constructing sewers in portions of East Fifth, East 19th, East 23d, Van Blarcom Sts. and 17th Ave. H. J. Harder is City Engr.

BRIDGEPORT, PA.—Bids are asked by George M. Rathmell, Chn. Street Com., until April 27, for constructing sewers.

EASTON, PA.—The Department of Sewers April 16 awarded contracts to JOHN McINERNEY for constructing sewers in portions of High and Philadelphia Sts.

BEAVER, PA.—JOHN P. POTTER, of Monaca, Pa., has secured contract for laying about 1,000 ft. 12-in. sewer in portion of Tailor St.

WASHINGTON, D. C.—The following bids were received April 15 by the District Commissioners for constructing a sewer on Item 1, ordinary excavation, per cu. yd.; Item 2, brick masonry, per cu. yd.; Item 3, vitrified brick masonry, per cu. yd.; Item 4, sewer brick masonry "B"; Item 5, sewer brick masonry "C": E. G. Gummell, Eckington, D. C., (1) 70 cts., (2) $16, (3) $22, (4) $8, (5) $8; Edmond Saxton, Bladensburg Road, Washington, (1) $1.30, (2) $15, (3) $21, (4) $9.60, (5) $9; R. J. Beall Construction Co., 1217 F St., N. W., Washington, (1) $1.30, (2) $15.75, (3) $22.50, (4) $9.20, (5) $8.75; Lyons Bros., Washington, (1) $1.10, (2) $18, (3) $25, (4) $11.50, (5) $11.25; James A. Coyle, Washington, (1) $1.10, (2) $19, (3) $28, (4) $10, (5) $9.50.

ROMNEY, W. VA.—See under Water Supply—Irrigation.

EATONTON, GA.—Sewers will be constructed. Estimated cost, $10,000.

SANDERSVILLE, GA.—Bids are asked by D. L. Cheatham, Mayor, until 3 p. m., April 29, for furnishing materials and constructing complete, about six miles of 8 to 15-in. sewers, with manholes, flush-tanks, etc. Arthur Pew is Consul. Engr., 619 Temple Court, Atlanta, Ga.

LUDLOW (Covington post-office), KY.—The Council plans to construct trunk sewers this summer.

LEXINGTON, KY.—J. .J Fitzgerald is lowest bidder, and will probably receive contract for construction of sanitary sewer on South Limestone St., at the following bid: Main sewer, 80 cts. per ft.; branches, 40 cts. per ft.; manholes, $35; flush tanks, $55, and rock excavation, $2 per cu. yd. P. P. O'Neill is City Engr.

ELYRIA, OHIO.—A sanitary sewer is to be constructed on West Eighth St., preparatory to paving the street. L. W. Griffin is City Engr.

NEW PHILADELPHIA, OHIO.—Council has under consideration construction of sewage disposal plant.

FOLLANSBEE, OHIO.—The contract for construction of sewer system has been awarded to FERRY & SONS, of Crafton, Pa., at $15,000.

MINGO, OHIO.—Bids will soon be asked for constructing sewers.

ANN ARBOR, MICH.—Bids are asked by the Board of Public Works until 7.30 p. m., May 1, for constructing lateral sewer No. 21. Ross Granger is City Clk.

PRINCETON, MICH.—Charles H. Pratt, Engr., Princeton, Mich., is engaged in laying out town site at this place for the Cleveland Cliffs Iron Co. The work consists in clearing and grading about 8 miles of streets, clearing house sites and reservations, erecting many houses, fences, etc.; installing sewer and water system. Plans and specifications will soon be ready. The approximate quantities required for constructing sewer system are as follows: 8,500 lin. ft. 5-in. house connections, 150 lin. ft. 6-in., 12,130 lin. ft. 8-in., 3,730 lin. ft. 10-in., 1,200 lin. ft. 12-in., 1,410 lin. ft. 18-in., 1,020 lin. ft. 24-in. sewers; 283 8 × 5-in., 50 10 × 5-in., 4 24 × 5-in., 3 6 × 5-in., 8 12 × 5-in. Y branches; 350 5-in. stoppers for closing pipe ends; 48 brick or concrete manholes and castings. The company will furnish pipe, etc., for installing water-works system, as follows: 11,850 ft. 4-in., 5,875 ft. 6-in., 8,165 ft. 8-in. wooden water pipe; 8,800 ft. ¾-in. galvanized iron water pipe; 29 4-in., 4 6-in., 3 8-in. valves and boxes; 350 ¾-in. corporation cocks; 350 ¾-in. curb cocks; 350 Buffalo boxes, and all T's, Y's, etc., required.

DECATUR, ILL.—The contract for construction of sewers has been awarded to A. D. THOMPSON, 335 Woolner Bldg., Peoria, Ill. Cost, $73,800. A. B. Alexander is City Engr.

MENDOTA, ILL.—Bids are asked by Geo. Holland, City Clk., until 7:30 p. m., April 26, for laying surface sewers on Main, Jefferson and Washington Sts., Illinois Ave., and in alley in Block 49, West's Addition.

MADISON, WIS.—Bids are asked until May 10 for constructing three miles of 6 to 10-in. sanitary sewers. Estimated cost, $15,000. John F. Icke is City Engr.

CENTERVILLE, IOWA.—M. C. McGINNIS has secured contract for constructing drainage ditch ½-mile long, between Charlton River Drainage Districts Nos. 1 and 2.

OTTUMWA, IOWA.—Contract for construction of West Mill St. sewer has been let to N. N. NAUGLE & CO. Contract is reported to amount to about $32,000. C. R. Allen is City Engr.

ST. PAUL, MINN.—The Board of Public Works has let contracts to JOHN LIND for constructing sewers in portions of Ashland Ave. and Lafond St., at $6.150. L. E. Rundlett is City Engr.

HASTINGS, MINN.—Bids are asked until May 6 by the City Council for furnishing material and constructing sewers and waterworks in Tyler, Ramsey, Vermillion, Second, Seventh and Eighth Sts. Chas. Hankes is City Clk.

ELLSWORTH, KAN.—Paul Wakenhut, City Engr. of Salina, Kan., has made surveys for laying about 3,000 ft. of sewers.

HOLDREDGE, NEB.—The city contemplates constructing sewerage system.

CENTRAL CITY, NEB.—The Central City Sewer Co. has been organized. G. H. Gray is Pres. Surveys are to be made at once for constructing sewer system.

WATERTOWN, S. DAK.—HESS & RAU have been awarded contract for constructing Third Ward sewer, at $10,500. Bids were also received as follows: W. I. Gray & Co., $12,044; Alstrop & Olson, $11,874; G. S. Redman, $12,542; Fraser & Elliott, $11,875; James & Roderick, $10,500 and Stover Construction Co., $11,111.

BATESVILLE, ARK.—JOHN McCOPPIN, of Little Rock, Ark., has secured contract for constructing sewers, at $12,725.

WACO, TEX.—Bids are asked by the City Council until noon, May 16, for constructing approximately 15 miles of sanitary sewers. R. B. Dickey is City Secy.

GALVESTON, TEX.—TRUEHEART & JACKSON have been awarded contract at $19,486 for extending sewer laterals. C. G. Wells is City Engr.

EL RENO, OKLA.—A sewerage system will be constructed.

SULPHUR, IND. T.—Bids will soon be asked by Col. Joseph F. Swords, Supt. Platt National Park, for constructing sewerage system in the Park. Cost, $15,000.

LAMAR, COLO.—Bids are asked by C. W. Heaton, Town Clk., until 8 p. m., May 9, for constructing sanitary sewer system, requiring 66,805 lin. ft. 8, 12, 15, 18 and 21-in. vitrified sewer pipe. (Advertised, Engineering News.)

RITZVILLE, WASH.—Council has decided to construct sewer system. Cost, $15,000.

OAKLAND, CAL.—Bids are asked by the Board of Public Works, Walter B. Fawcett, Secy., until 11 a. m., May 1, for furnishing material and constructing concrete sewer in 14th Ave. from East Twelfth St. to U. S. Bulkhead line in estuary of San Antonio River. C. W. Cross is City Engr.

PRESCOTT, ARIZ.—Bids are asked by Capt. Charles C. Walcutt, Jr., A. Q. M., until 3 p. m., May 2, for extending post sewer at Whipple Barracks, Ariz.

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

ATLANTIC CITY, N. J.—The city crematory may be repaired. J. W. Hackney is City Engr.

WHEELING, W. VA.—The question of constructing garbage crematory at cost of $25,000 is under consideration. Charles B. Cooke is City Engr.

ENSLEY, ALA.—J. C. GORDON has been awarded contract to sprinkle the streets.

OAKLAND, CAL.—The Mayor in his annual message to Council on April 1, advised construction of municipal garbage plant. C. W. Cross is City Engr.

SALT LAKE CITY, UTAH.—Specifications and bidding sheets for constructing extension to garbage crematory in North Salt Lake City are on file at office of Engineering News, New York. Bids are asked by the Board of Public Works, F. J. Leonard, Chn., until 8 p. m., May 3. Louis C. Kelsey is City Engr. (Advertised, Engineering News.)

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

BOSTON, MASS.—The following bids were opened April 11 at the office of L. M. Hastings, City Engr., for paving (a) Bennington St.; (b) Prescott St.; W. H. Gross & Co., (a) $13,755, (b) $19,446. Jas. Doherty, (a) $12,747, (b) $17,658. Coleman Bros., (a) $12,646, (b) $17,492, and Jones & Meehan (a) $12,098, (b) $17,642.

LAWRENCE, MASS.—PHILIP HOLLAND, of this city, has secured contract for paving Common St. with Mack vitrified brick, on concrete foundation, with cement joints, 19,000 sq. yds., at $2.68 per sq. yd. A. D. Marble is City Engr.

ALBANY, N. Y.—The Board of Contract and Supply has awarded to MICHAEL F. DOLLARD of Albany, contract for grading and paving of Western Ave., from present terminus of pavement to the city line for $37,200. Walter Mellus is City Engr.

COHOES, N. Y.—Bids are asked by the City Council, Wm. J. Elliot, City Clk., until 8 p. m., May 7, for paving and curbing alley between Main and Congress Sts., from Hart to George Sts. Charles H. Van Auken is City Engr.

OSSINING, N. Y.—Bids are asked until April 30 by Richard A. Ward, Village Clk., for paving portions of Main St., Highland and Croton Aves., Engineer's estimate: 8,900 sq. yds. vitrified brick pavement; 3,300 lin. ft. new bluestone curb., furnished and laid; 1,250 cu. yds. concrete for foundation; 950 lin. ft. 6, 12, 15, 16 and 24-in. vitrified salt glazed sewer pipe, etc. Arnold & Avery are Village Engrs.

WHITE PLAINS, N. Y.—Bids are asked until May 6 by Peter Paulding, Village Clk., for furnishing and laying about 2,000 sq. yds. asphalt block pavement on Orawaupum and Church Sts. J. Henry Carpenter is Village Engr.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of The Bronx, until 11 a. m., May 2, for (A) regulating, grading, setting curbstone, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Baychester Ave., from White Plains to Boston Road and (B) paving with asphalt blocks on concrete foundation roadway of Creston Ave., from East 184th St. to East 198th St., and setting curb where necessary.

Bids are asked by John F. Ahearn, Pres. Boro. of Manhattan, until 3 p. m., May 1, for repairing and maintaining sheet asphalt pavements in the Borough of Manhattan, together with incidental work.

Bids are asked by the Department of Parks Moses Herrman, Pres., until 3 p. m., May 2, for furnishing and delivering limestone and limestone screenings in parks and on parkways, Boroughs of Brooklyn and Queens.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., May 8, for regulating, grading, paving, etc., portions of various streets, Boro. of Brooklyn.

Bids are asked by J. W. Stevenson, Comr. of Bridges, until 2 p. m., May 6, for repairs to asphalt pavements on bridges over Harlem River and in Boro. of Manhattan, during the present year.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works until 11 a. m., April 30, for repaving portions of Eagle and Washington Sts. and Glenwood Ave. F. G. Ward is Comr. Charles M. Morse is Deputy Engr. Comr.

FT. PORTER (Buffalo post-office), N. Y.—Bids are asked by the Quartermaster until noon, May 6, for constructing cement walks.

BAYONNE, N. J.—Bids are asked by the City Council until 8 p. m., May 7, for laying about 6,700 sq. yds. Telford macadam, 5,640 sq. yds. brick and 4,640 sq. yds. asphalt pavement. W. T. Hamilton is City Clk. F. W. Dalrymple is City Engr. (Advertised, Engineering News.)

RIDGEWOOD, N. J.—Bids are asked by the Village Trustees until 8 p. m., May 7, for grading, macadamizing and improving various streets and roads. J. Blauvelt Hopper is Village Clk. H. J. Harder, City Hall, Paterson, N. J., is Village Engr.

TRENTON, N. J.—Bids are asked by the City Council until 8 p. m., May 7, for repairing asphalt pavements on which guarantees have expired. Harry B. Salter is City Clk. Abram Swan, Jr., is City Engr.

PATERSON, N. J.—Bids are asked by the Road Committee Board of Chosen Freeholders, County of Passaic, until 2 p. m., May 1, for (1) grading and macadamizing Macopin Road, from end of portion of said road which has been macadamized to Echo Lake Road. (2) grading and macadamizing East 22d St., from Park Ave. to Market St., Paterson, N. J. (3) Grading and macadamizing Midvale (Greenwood Lake) Road, from end of macadam at Midvale to Station 160 + 20.

FREEPORT, PA.—Bids will soon be asked by the Borough Engineer for grading, curbing, etc.

MEADVILLE, PA.—The contract for paving Chestnut and Baldwin Sts. with compressed asphalt block has been let to GEORGE VETTER of Meadville, at $54,583. C. E. Douglas is City Engr.

BEAVER FALLS, PA.—Bids will soon be asked for paving, curbing, etc. H. T. Barker is City Engr.

FRANKLIN, PA.—Bids are asked by the City Council until May 3 for curbing and paving Otter, W. Park, Elk and 8th Sts., in all about 1 mile. Phil. Engelskirger is City Clk.

KITTANNING, PA.—Bids will soon be asked by the Borough Engineer for grading, paving and curbing.

CORRY, PA.—Bids are asked until 5 p. m., April 29, for grading, curbing and paving portion of Washington St. The work consists of the following approximate quantities: 7,400 sq. yds. brick pavement, 3,600 ft. curbing, 500 ft. edge stone, together with catchbasins, c.-i. gutter plates, etc. Nevin R. Dickson is City Engr. (Advertised, Engineering News.)

BELTSVILLE, MD.—McDOWELL & BROWN, Port Deposit, Md., have secured contract to build three miles of the Washington Boulevard, between Beltsville and College. Cost, $30,000. The Highway Division of State Geological Survey has charge of the work. W. W. Crosby, Johns Hopkins University, is Ch. Engr. Bids will soon be asked for constructing another portion of this work near Hyattsville.

NORFOLK, VA.—The Bo[illegible] Control has awarded contract to LE[illegible]AWSON for laying granolithic sidewalk [illegible] west side of Botetourt St., from Mowbr[illegible]ch to Olney Road. W. T. Brooke is Ci[illegible]gr.

FREDERICKSBURG, VA.—[illegible]s are asked by Maj. M. Gray Zalinski, [illegible], U. S. A., Washington, D. C., until [illegible] m., May 4, for improving government [illegible]ay at Fredericksburg.

KEYSER, W. VA.—H. [illegible]OOKS CO., Fairmount, W. Va., has se[illegible] contract at about $20,000 for paving str[illegible] Brick to be used will be manufactured [illegible] Hammond Brick Co., T. I. Brett, Mgr.

LEXINGTON, N. C.—Bids [illegible]sked by the Board of Commissioners un[illegible] p. m., May 3, for macadamizing streets. The approximate quantities are as fo[illegible] 6,000 cu. yds. excavation, 15,000 lin. f[illegible]nite or cement curb, 13,000 lin. ft. v[illegible]d brick or cement gutter and 38,000 sq. [illegible]cadam. Z. I. Walser is Town Clk. G[illegible] C. White, Durham, N. C., is Engr. (A[illegible]tised, Engineering News.)

WAYCROSS, GA.—City will [illegible]truct about 12,000 sq. yds. vitrified brick [illegible]ving at cost of $20,000. C. J. Thomas is [illegible] Engr.

DECATUR, ALA.—The Cou[illegible] has decided to pave various streets. Abo[illegible],000 lin. ft. will be paved and sidewalks [illegible]

HUNTSVILLE, ALA.—The [illegible]cipal business streets will be paved. R. E. Smith is Mayor.

MONTGOMERY, ALA.—Bids [illegible] asked by R. S. Williams, City Treas., un[illegible] May 6, for paving and otherwise improving South Hull St. with vitrified brick, asphalt, bitulithic pavement or gravel.

ALEXANDRIA, LA.—City has awarded contract to the SOUTHERN CONSTRUCTION CO. for construction of cement sidewalks and curbing on 16th, Holly, Third and other streets. F. S. Hoyt is City Engr.

BURKESVILLE, KY.—The construction of a 30-mile turnpike road to connect Burkesville and Columbia is planned by the Commercial Clubs of both towns.

LOUISVILLE, KY.—The BARBER ASPHALT PAVING CO., 114 Liberty St., New York, has been awarded contract to pave Market St., from Tenth to Twelfth with asphalt, at $1.04 per sq. yd. Also Slaughter Ave., from Baxter Ave., at $1.96 per sq. yd. Joseph P. Claybrook is City Engr.

BUCYRUS, OHIO.—E. O. FRESHWATER & SONS, of Chester, W. Va., have secured contract for paving Charles St. for $27,000, using Metropolitan block. The totals of the other bids received on this class of brick were: Bormuth & Babst, Crestline, $28,050; W. H. Raymond & Co., Galion, $27,460; W. H. Ringwald, Chillicothe, $29,065, and L. P. Battefield, Bucyrus, $27,000. C. A. Guiss is City Engr.

CHARDON, OHIO.—Bids will soon be asked by the Council for paving South St.

CLYDE, OHIO.—Bids will soon be asked for paving and laying sewers on Railroad St.

COLUMBUS, OHIO.—Bids are asked by the County Commissioners until noon, May 10, for the following work: Engineer's estimate No. 726, grading, macadamizing, etc., of Wilson Hill in Sharon Township; No. 728, grading, macadamizing, etc., approaches to May Bridge in Truro Township; raising and dressing roadway and approaches to Frank Road Bridge over Scioto River, Marion and Franklin Townships. W. C. Cussino is County Audr.

The Ohio Realty & Construction Co. will construct cement sidewalks, two miles of grading, etc.

CHILLICOTHE, OHIO.—Bids are asked by the Board of Public Service until noon, April 26, for paving Hickory St., requiring 2,500 ft. of curb and 4,630 sq. yds. of paving. Estimated cost, $9,200. H. M. Redd is City Engr.

LORAIN, OHIO.—Bids are asked by the Board of Public Service, G. N. Damon, Clk., until noon, May 4, for furnishing material and paving portions of Washington and Bank Sts. and Second and Penfield Aves. J. B. Nichols is City Engr. (Advertised, Engineering News.)

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, May 10, for grading, setting sand and limestone curb and paving portion of Dover St. and Hudson Ave. with brick and macadam. Estimated cost, $11,800. Charles N. Dannenhower is Ch. Engr.

George Sconce, 2550 Burnet Ave., was lowest bidder for grading, setting sandstone curb and repaving portion of Spring St. with boulders, at $3,739. Bids received by the Board of Public Service April 15.

John M. O'Connor, 1906 Highland Ave., was lowest bidder for grading, setting limestone curb and paving portion of Vista Ave. with brick, at $2,888. Bids received by the Board of Public Service April 15.

Bids are asked by the County Commissioners, Fred Dreihs, Clk., until noon, May 10, for the following county work: Under Specifications No. 587, for improvement of Springfield Pike, from Butler County Line to Oak Ave., Glendale, Springfield Township.

KENT, OHIO.—Portions of Franklin Ave., Erie and Portage Sts. will be paved this summer. The work consists of about 2,000 lin. ft. of paving. T. A. McMahon is Village Clk.

JEFFERSON, OHIO.—Bids are asked by Sam Huston, State Highway Comr., at Jefferson, until May 9, for constructing highway.

DELHI, OHIO.—The Council has decided to pave Lincoln Ave. with brick.

XENIA, OHIO.—Bids are asked until April 30 by Wm. Dodds Company. And at Xenia for furnishing material and constructing macadam road about three miles long, known as the Xenia and Dayton Pike. C. A. McKay is Engr.

LIMA, OHIO.—The Board of Public Service has let contract to T. J. MULLIGAN, at $30,203, for grading, curbing and paving with vitrified brick, on 6-in. concrete foundation, North Mai St., from Pennsylvania R. R. north to nby St., approximately 17,000 sq. yds. L. Crumrine is Secy. J. K. Brice is Ch. Eng

FOSTOR OHIO.—Riggs and Sherman, Engrs., of ledo, have furnished estimates for paving arious streets and have been authorized prepare plans.

DILLON LE, O.—Various streets may be paved.

LEIPS HIO.—Bids will soon be asked for lay wed stone or cement sidewalk on Twelfth H. G. Moenter is Clk.

GREEN RG, IND.—Bids are asked by the Count ommissioners at Greensburg until 1 p. May 6, for construction of macadamized ad in Clay Township 14,974 ft. in length nown as the "Liberty Church" road. F E. Ryan is County Audr.

GOSHE IND.—The Council is preparing to pave rious streets. T. A. Foster is City Clk.

EVANS LLE, IND.—The CRESCENT GRADIN O. has been awarded contract for grading miles of railroad work, and is already king preparations to move its outfit fr Peoria, Ill., where it has been employed rading the McKinley construction across the river and constructing dike below Pekin.

NAPPANEE, IND.—The city will soon pave about two miles of streets.

WINCHESTER, IND.—Bids are asked by the County Commissioners until 1 p. m., May, 9, for construction of about 27 miles of crushed stone roads in White River, Greensfork, Wayne, Jackson, Ward and Washington Townships in Randolph County. There are twelve roads to be improved with a total length of 140,936 ft. Mack Pogue is County Audr.

FT. BENJAMIN HARRISON,- (Lawrence post-office), IND.—Bids are asked by George H. Penrose, Q. M., until 10 a. m., May 18, for constructing cement walks.

ORLEANS, IND.—Bids are asked by the County Commissioners until 2 p. m., May 8, for two roads, 21,090 ft. in length, in Orleans and North East Townships.

JEFFERSONVILLE, IND.—Bids are asked by the County Commissioners until May 4 for constructing nine gravel and macadamized roads, about 30 miles in length. George W. Parks is County Audr.

KOKOMO, IND.—The Board of Public Works has let contract to DONNELLEY & KELLAR, at $3,968, for constructing macadam roadway and laying cement sidewalks on Main St., from Defenbaugh to Wheeler Sts. W. F. Mann is City Engr.

PERU, IND.—Bids are asked by the City Clk. until May 11 for paving Water St. with brick.

WESTFIELD, IND.—Bids are being received by the Town Board, T. T. Bray, Clk., for paving 1½ miles of streets.

TERRE HAUTE, IND.—Bids are asked by the County Commissioners until 11 a. m., May 11, for grading, graveling, etc., 12,552 ft. gravel roads.

PRINCETON, MICH.—See under Sewerage.

BENZONIA, MICH.—Bids are asked by the Township Board until May 5 for building one mile of public road on the beach on the north side of Crystal Lake. Wm. J. Pettitt is Supv.

MENOMINEE, MICH.—Bids are being received by the Council for paving various streets with brick or other material. Albert Hess is City Engr.

LANSING, MICH.—Contract for paving Franklin Ave. has been awarded to FARREL BROS., at $10,296, and paving Main St. to W. H. McKALE, for $13,577. H. A. Collar is City Engr.

CHICAGO, ILL.—The Supervising Architect of the Treasury, Washington, D. C., has awarded to JOHN A. McGARRY & CO., 348 Sheffield Ave., Chicago, contract for improving driveway to Chicago post-office, at $7,015.

Bids are asked by the Commissioner of Public Works, until 11 a. m., May 1, for furnishing material and repairing asphalt pavements during the term ending Dec. 31, 1907.

ELGIN, ILL.—Bids will soon be asked by Henry Dakin, City Engr., for laying sidewalks on South Liberty St. and lowering sidewalks on Milwaukee St.

EAU CLAIRE, WIS.—Bids will soon be asked for paving Third Ave., Broadway, Lake and Galloway Sts., with brick. J. C. Fennessey is City Clk.

OSHKOSH, WIS.—Bids are asked until May 4 by the Board of Public Works, W. A. Marden, Chn., for furnishing material, grading and constructing brick pavement on portion of Oregon St.; also grading, curbing and paving with asphalt portions of High and Main Sts. George H. Randall is City Engr.

CHIPPEWA FALLS, WIS.—Bids are asked by the Board of Public Works until 2 p. m., May 8, for paving with brick portions of Bay St. and Grand Ave.

SHAWANO, WIS.—Plans and specifications are being prepared by A. L. Hiles, Archt., of Menominee, Mich., for paving several blocks with tar macadam and laying curbs and gutters. Estimated cost, $6,000.

MADISON, WIS.—Bids are asked until May 7 for macadamizing, etc., ten miles of streets. Estimated cost, $100,000. John F. Icke is City Engr.

DAVENPORT, IOWA.—Bids are being received for paving portions of Brady and Marquette Sts. and Grand and Dennison Aves. Thomas Murray is City Engr.

ST. PAUL, MINN.—Contract for grading Sheffer St., from Seventh to Chatsworth Sts., has been awarded to KEOUGH BROS., for $ .190. L. E. Rundlett is City Engr.

CROOKSTON, MINN.—Bids are being received by A. M. Childs, City Clk., for paving Houston Ave. with asphalt.

FREMONT, NEB.—J. W. TURNER, Cedar Falls, Iowa, has received contract for paving 29 blocks with brick, at $1.86¾ per sq. yd. J. W. Andrews is City Engr.

OMAHA, NEB.—The County Commissioners have awarded contracts as follows for constructing ten miles of macadam road: Q St. road, E. D. VAN COURT, at $1.34 per lin. ft., for 10-in. macadam and $1.09 for 8-in. Same contractor also secured the contracts for Leavenworth St. road, 8 in. deep, for $1.09 per ft., and Center St. road, 8 in. deep, for $1.72 per ft. C. W. CRAIG & CO. was awarded contract for paving Military Road 12 ft. wide, 8 in. deep, for $1.52 per ft., and for similar paving on Calhoun Road for $1.56 per ft. A contract for grading was also let to DAN HANNAN on Military Road to prepare for paving. Grading contracts on what are known as the Brandeis and Stoltenberg Roads, north of the city, were let to J. W. WILLIAMS, and grading of south county line road was awarded to M. H. WILLIAMS.

FORT McKENZIE, WYO.—Bids are asked by Capt. Wm. D. Davis, Constructing Q. M., until 10 a. m., May 1, for construction of macadam roads and driveways, concrete walks, curbs and culverts, brick gutters and catch-basins and tile drains, at Fort McKenzie, Wyo.

HELENA, MONT.—Council has authorized an issue of bonds amounting to $100,000 for street improvements. C. W. Helmick is City Engr.

INDEPENDENCE, MO.—It is proposed to grade and macadamize Woods Chapel Road, between Blue Springs and Lee's Summit. Estimated cost, $30,000.

ST. JOSEPH, MO.—The Board of Public Works April 11 awarded contract to HOMER N. RICE for paving Olive St., from 15th to 26th Sts., with brick, at $17,191. Bids were also received from the following: F. P. Halsey, $19,813; C. W. Dillingham, $19,973, and Rackliffe & Gibson, $20,289. W. H. Floyd, Jr., is City Engr.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements, W. B. Dryden, Secy., until noon, May 7, for grading, paving, setting curb, etc., on portions of various streets. Charles M. Talbert is C. E., Bd. Pub. Impvts.

WAGONER, IND. T.—The City contemplates many street improvements. H. H. Hellen is City Engr.

PUEBLO, COLO.—The CLEVELAND TRINIDAD PAVING CO., Rose Bldg., Cleveland, Ohio, has been awarded contract for improving Victoria Ave. paving district. Hiram Phillips, Frisco Bldg., St. Louis, Mo., is Consult. Engr.

EAST BAYARD, N. MEX.—Bids are asked by Capt. S. P. Vestal, Q. M., until 11 a. m., May 1, for constructing approximately 28,000 ft. of cement gutters and sidewalks at this post.

VANCOUVER BARRACKS, (Vaucouver post-office), WASH.—Bids are asked by the Constructing Q. M., Vancouver Barracks, until 11 a. m., May 6, for labor and material for constructing cement walks, curbs, steps, cross walks, etc.

FT. STEVENS, ORE.—Bids are asked by the Constructing Q. M. until 2 p. m., May 1, for grading and drainage at Ft. Stevens.

DELHI, ONT.—Bids are asked by R. Crysler, Village Clk., until April 29, for constructing 14,000 sq. ft. cement walks.

BERLIN, ONT.—Bids are asked by John A. Lang, Chn. Board of Works, until noon, April 30, for constructing cement-concrete walks during the current year.

WINNIPEG, MAN.—The City Council has approved of the following amounts, recommended by H. N. Ruttan, City Engr: Block pavements, $53,072; macadam pavements, $53,382; asphalt pavements, $1,407,865; granolithic stone walks, $93,055; plank walk, $22,263; grading, $4,075, and sewers, $151,724. In connection with the civic power plant the engineer states that 35,000 cu. yds. of earth and 65,000 cu. yds of rock will be moved, and 45,000 cu. yds. of concrete work done this season.

HAWAII.—See under U. S. Possessions and Cuba.

MANUFACTURING PLANTS.

BOSTON, MASS.—The McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., has secured contract from the Keith Car Co., Boston, for erection of a steel building 60 x 1,400 ft., which will require about 700 tons of steel.

LYNN, MASS.—W. A. PRESCOTT, of Wakefield, Mass., has general contract to build a 4-story frame factory building, 250 x 50 ft., for Walton & Logan Co., 683 Washington St., shoe manufacturers. Wheeler & Betton, 59 Exchange St., Lynn, are Archs.

NEW BEDFORD, MASS.—The Board of Directors of the Potomska Mill, New Bedford, has under consideration plans for erection of a weave shed, to be located at the south of the present mill. It is probable that all the looms in the present mill will be moved to the new structure and that a large number of additional spindles will be added to the mill's equipment.

SPRINGFIELD, MASS.—The Phelps Publishing Co., whose plant on Worthington St. was recently destroyed by fire, has decided to erect a building on the site of the burned one. The plans call for a building of reinforced concrete. It will be six to eight stories high above the basement, and will contain nearly five acres of floor space. It will have a frontage of 300 ft. on Worthington St., 100 ft. on Water St. and 100 ft. on Broadway. (See Buildings.)

PAWTUCKET, R. I.—It is reported that plans are under way for erection within the next few months of a new braid mill in the vicinity of Ingrahamville. Eugene T. Rhoades of this city is interested, and ground for the new mill has already been staked out. The first structure to be erected will be 100 ft. long and about 50 ft. wide. It will be of brick and two or three stories high.

BRISTOL, CONN.—Hartwell & Kingston, of Providence, R. I., are preparing plans for an addition 450 x 60 ft. to the plant of the National India Rubber Co. The power plant will have a capacity of 850 HP.

TORRINGTON, CONN.—The Turner & Seymour Mfg. Co., Lawton St., Torrington, Conn., brass founders, have awarded contract to TORRINGTON BUILDING CO., 264 Water St., for factory addition, including brick factory, 40 x 112 ft, one story; brick plating room, one story, 40 x 13 ft.; frame storage one story, 50 x 100 ft.

THOMASTON, CONN.—The Seth Thomas Clock Co., Thomaston, has let contract for constructing a 4-story brick and concrete clock factory, 100 x 80 ft., to the TORRINGTON BUILDING CO., 264 Water St., Torrington.

DANIELSON, CONN.—The Industrial & Mfg. Co., Danielson, will erect a mill, which will be of brick, 240 x 40 ft., three stories high. It will have a boiler room 40 x 40 ft., and a tower 20 ft. sq. and 45 ft. high. The construction will be commenced at once and it is expected to be finished by Sept. 1. A spur track will be laid to accommodate the mill.

WATERBURY, CONN.—The Waterbury Clock Co., 31 Cherry Ave., Waterbury, has awarded to TRACY BROS. CO., 52 Benedict St., this city, the contract to construct a brick factory addition. Estimated cost, $20,000. E. E. Benedict, 51 Leavenworth St., Waterbury, is Arch.

SOUTH NORWALK, CONN.—The contract for the erection of the proposed addition to the plant of the Eastern Underwear Manufacturing Co., South Norwalk, has been let to the NASH DONIPHAN CO., 1 Madison Ave., New York.

NEW HAVEN, CONN.—Contract for constructing factory building for the Winchester Repeating Arms Co., 195 Winchester Ave., has been awarded to the H. WALES LINES CO., Town Hall, Meriden, Conn. The building will have four stories, and will be 50 × 162 ft.

MERIDEN, CONN.—Edward Miller & Co., 99 Center St., manufacturers of lamps, will erect a 5-story brick factory costing $25,000 and a store-house costing $35,000.

ELMIRA, N. Y.—The American Bridge Co. is reported to have awarded contracts for work in connection with their plant at Elmira Heights to the following local contractors: The mason and concrete work will be done by the day under the supervision of Louis Rook; LOSIE BROS., roofing; C. H. GRIDLEY & SONS, metal work; H. C. SPAULDING & CO., sash and blind work; THURSTON & HASKELL, carpenter work. The company will do its own structural and mason work. Estimated cost, $1,000,000.

NORTH TONAWANDA, N. Y.—The North Tonawanda Musical Instrument Co. has completed plans for a factory building, 40 × 100 ft., to cost $25,000. John G. Seiner, 76 Thompson St., Buffalo, is Arch.

BUFFALO, N. Y.—The Buffalo Weaving & Belting Co. is to erect an additional weaving mill on a site recently purchased on Chandler St. opposite the company's new cotton spinning mill now in course of construction.

The Roeder Vehicle Fender Co. has been incorporated at Buffalo, N. Y., with a capital stock of $50,000, to manufacture the Roeder patent fender for automobiles, cars, etc., and will erect and equip a factory at once. Anthony Roeder, Broadway and Spruce St., is Mgr.

A site has been secured on Tonawanda St. on which a 3-story brick factory is to be built for manufacture of automobile radiators by the Fedders Mfg. Co., 1598 Genesee St. Estimated cost, $22,000.

SANDY HOOK, N. J.—We are officially advised that the STANDARD ENGINEERING CORPORATION, Land Title Bldg., Philadelphia, Pa., has contract to construct a set of shops for the War Department, Washington, at the Sandy Hook Proving Ground. This work includes a machine shop, slow burning construction, 325 × 50 ft., equipped for gun repair work; a plumbing-carpenter and paint shop, 175 × 50 ft., and a power-house, 150 × 50 ft., installed with Smith boilers. Ball engines, Crocker-Wheeler generators, Walker switchboard. The Cryer system of low pressure steam heat is to be installed throughout. F. H. Hill is Secy. of the engineering corporation.

KINGSTON (Wilkes-Barre post-office), PA.—The silk mill of Crane Bros., at Kingston, is to be enlarged. A brick annex, two stories high, 50 × 200 ft., is to be erected. A new company has been formed under the name of Crane Bros., incorporated by W. B. Crane, F. S. Crane and F. W. Larned. The capital stock is $100,000.

BERWICK, PA.—The Berwick Brewing Co., 1202 Cedar Ave., Scranton, Pa., have had plans completed for a brick and steel fireproof brewery to cost $125,000. A complete power plant and special machinery will be installed.

FRANKLIN, PA.—Leland Craig, Arch., 1241 Liberty St., Franklin, is preparing plans and will take bids after two months for a 1-story reinforced concrete carriage factory, 64 × 170 ft., for the Myers Carriage Co., 13th and Buffalo Sts. Cost, from $30,000 to $35,000.

PHILADELPHIA, PA.—A 7-story brick hat factory is to be built by the WILLIAM STEELE & SONS CO., 16th and Arch Sts., for Frank Shoble & Co., at the corner of Tenth and Oxford Sts. It will measure 69.8 ft. in width on Oxford St. and 134 ft. in length, extending from Tenth to Hutchinson St.

PITTSBURG, PA.—The Pittsburg Automatic Vise & Tool Co., Wabash Bldg., Pittsburg, will build a plant in the East End at a cost of $100,000. G. P. Blackstone is Pres.

BRACKENRIDGE, PA.—VOLKOMMER & CO., Empire Bldg., Pittsburg, have been awarded a contract for constructing a cold rolling mill building for the Interstate Steel Co., Brackenridge, to be of steel construction, 65 × 200 ft., and to be equipped with a 10-ton crane.

READING, PA.—L. H. FOCHT & SON, Boer Bldg., Reading, have secured contracts to erect a 1-story brick, steel and concrete shop, 200 × 150 ft., for the Reading Iron Co., and to construct a 4-story brick factory, 100 × 30 ft., at Fourth and Franklin Sts., for H. J. Potts.

HAGERSTOWN, MD.—The Maryland Portland Cement Co. is having ground surveyed preparatory to erection of plant. Buildings will be of steel frame, covered with corrugated iron, and with concrete foundations. The plant will begin operations with a single unit of 1,000 bbls. daily capacity, covering space 400 × 30 ft., which can be increased so that when capacity reaches 2,500 bbls. daily buildings will cover about nine acres. Limestone will be taken from nearby quarry and shale from the Williamsport land recently purchased. Fred H. Lewis, Leeds, Ala., is in charge of construction and installation of machinery and will be assisted by Arnold Hochstrasser, Res. Engr. De Courcey W. Thom, is Pres., Equitable Bldg., Baltimore, Md.

BALTIMORE, MD.—The Maryland Car Wheel Works, Curtis Bay, Baltimore, intends to rebuild its plant, which was recently destroyed by fire.

LYNCHBURG, VA.—The DeWitt-Wharton Mfg. Co. has awarded contract to C. W. HANCOCK & SON, at $13,000, for erection of proposed shirt factory building, after plans by E. C. Frye. The factory will have three stories and basement and will be 40 × 100 ft. Total floor space, 16,000 ft.; red brick; slag roof; interior of mill construction; maple floor; electric elevator; sprinkler system. Clinton DeWitt is Pres.

WILKESBORO, N. C.—N. Glenn Williams, of Williams, N. C., contemplates erecting a distillery to cost about $75,000.

CHARLOTTE, N. C.—The Southern Spindle & Flyer Co. will make enlargements and improvements in its plant which will enable it to manufacture both roving and spinning spindles as well as steel rolls and flyers.

LAGRANGE, LA.—According to press reports, Fuller E. Callaway, Henry Banks, L. H. Truitt and others will erect a cotton gin, investing about $10,000.

NEW ORLEANS, LA.—The McKay Patent Turpentine Cup Co., Hibernia Bldg., New Orleans, La., which has heretofore had its turpentine cup made by other parties, is about to erect its own plant. The plant will consist of two buildings, each 75 × 140 ft.

ARCADIA, LA.—The Arcadia Cotton Oil Mill will make improvements to plant, consisting of the erection of 15,000-gal. steel tank and tower for water protection and additional building for fertilizer department.

RAVENNA, OHIO.—The Ravenna Furnace & Heating Co., Ravenna, Ohio, which was recently reorganized, has purchased a site and will begin the erection of a foundry building about 80 × 100 ft. The company will engage in the manufacture of furnaces.

SHELBYVILLE, IND.—The Shelbyville Canning Co. will receive bids for erection of an extensive addition to the company's plant. Jacob Bischer is Pres.

CHICAGO, ILL.—Raeder & Wood, Archs., 77 East Jackson Boulevard, have let contract for constructing a 1-story brick foundry to be erected at 35th St. and Ashland Ave. for the Brady Foundry Co., to E. EILENBERGER & CO., 153 LaSalle. Estimated cost, $150,000.

MILWAUKEE, WIS.—The Milwaukee Refrigerator Co. will at once commence the erection of a new car plant, consisting of erecting shop, 100 × 200 ft., and will have a capacity of twelve cars per day. The wood mill and blacksmith shop and machine shop will be in proportion to the erecting shop and will be fully equipped with the latest improved machinery. T. F. Howe is Gen. Mgr., Pabst Bldg.

WAUSAU, WIS.—The D. J. Murray Machine Co. contemplates erecting a 1-story brick and steel foundry building, 100 × 250 ft., to cost $70,000. J. D. Murray is Pres.

DULUTH, MINN.—Plans have been completed for the new plant to be erected by the Clyde Iron Works, Duluth, Minn. The plant will consist of a machine shop, 90 × 140 ft; foundry, 90 × 180 ft.; blacksmith shop, 50 × 200 ft.; pattern shop, 90 ft. square; tool shop, 50 × 80 ft., and a 2-story warehouse, 70 × 90 ft. The buildings will be of mill construction and one story, with the exception of the warehouse.

BRAINERD, MINN.—LIBBY & LIBBY CO., 244 Second Ave., South, of Minneapolis, are stated to have secured the contract to erect new buildings of the shops in this city of the Northern Pacific Ry. Co. The cost, exclusive of new machinery, is reported to be $250,000. W. L. Darling, St. Paul, Minn., is Ch. Engr.

INDEPENDENCE, MO.—Utah Plow Co., Ogden, Utah, has purchased 17½ acres of land and will begin the erection of plant to manufacture plows and other farm implements. W. D. Danielson is Pres.

JONESBORO, ARK.—G. M. Baslor, of Bloomfield, Ill., will establish a hub factory here to cost about $25,000.

OKLAHOMA, OKLA.—Van Meter & Schmitt, Archs., Old Post-Office Bldg., are preparing plans and will take bids in about a month for a 4-story cold storage building, 110 × 120 ft., for the Oklahoma Heat, Power & Refrigerator Co. Brick, stone and reinforced concrete will be used for construction, with composition roof, structural iron and steel work, etc. Cost, $160,000.

PORTLAND, ORE.—The Pacific Metal Works, Second and Everett Sts., has purchased a quarter of a block of land at the corner of Park and Everett Sts., in Portland, which will be entirely covered by a new factory building.

NIAGARA FALLS, ONT.—J. S. Fielding, C. E., 15 Toronto St., Toronto, has awarded the contract for erection of factory for the Carriage Mountings Co. to A. SWITZER, Toronto.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

U. S. RECLAMATION SERVICE—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

SEA-WALL.—Fort Morgan, Ala.—See under Bldgs.

CEMENT.—Galt, Ont.—Bids are asked by Joseph McCartney, Town Clk., until May 1, for supplying 2,000 bbls. cement.

DITCH.—Des Moines, Iowa.—Bids are asked until May 6 by Lew Burnett, County Auditor, for constructing a drainage ditch, involving about 11,500 cu. yds. of excavation.

FIRE ALARM SIGNAL BOXES.—New York, N. Y.—Bids are asked by Francis J. Lantry, Fire Comr., until 10.30 a. m., May 1, for furnishing and delivering 100 fire alarm signal boxes.

DREDGING—New London, Conn.—Bids are asked until noon, May 22, by Maj. Harry Taylor, Corps. Engrs., U. S. A., for dredging the Housatonic River. (Advertised, Engineering News.)

CEMENT.—Ottawa, Ont.—Bids are asked by Fred. Gelinas, Secy. Dept. Pub. Wks., until April 29, for supplying from 15,000 to 20,000 bbls. Portland cement for St. Andrew's Locks, Man.

MARINE BOILER.—Cleveland, Ohio.—Bids are asked by Lieut.-Col. C. McD. Townsend, Corps Engrs., U. S. A., until 2 p. m May 15, for furnishing and installing marine fire box boiler on U. S. tug "Spear."

PILE DOCK.—New York, N. Y.—Contract has been let for building a pile dock at Fort Wadsworth, N. Y., to JOHN D. GILLIES, New Dorp, N. Y. Cost, $11,500. Lieut.-Col. W. L. Marshall, Corps. Engrs., Army Bldg.

DREDGING.—Wilmington, Del.—Bids are asked until 11 a. m., May 8, by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., Engineer Office, U. S. A., Wilmington, for dredging Wilmington Harbor. (Advertised, Engineering News.)

ASH-HOIST.—New York.—The Supervising Architect of the Treasury, Washington, D. C., has awarded to A. J. HEMPHILL, 199 Fulton St., New York, contract for installing an ash hoist in the post-office at New York in the sum of $4,977.

RIP-RAP.—New Haven, Conn.—Bids are asked until noon, May 21, by Maj. Harry Taylor, Corps Engrs., U. S. A., New London, Conn., for delivering rip-rap stone in breakwater at New Haven. (Advertised, Engineering News.)

DUMP SCOWS.—Cincinnati, Ohio.—Bids are asked until 2 p. m., May 15, by Maj. J. G. Warren, Corps Engrs., U. S. A., Engineer Office, Custom House, Cincinnati, for constructing two dump scows. (Advertised, Engineering News.)

WHARF.—Souris, P. E. I.—The contract for the government landing wharf here has been let to E. A. WALLBERG, Merchants Bank Bldg., Montreal, Que. It will be constructed of reinforced concrete. Fred. Gelinas, Ottawa, is Secy. Dept. Pub. Wks.

LEVEE.—Vicksburg, Miss.—Bids are asked at office of Mississippi River Commission, Third District, Vicksburg, until May 11 for about 1,705,000 cu. yds. of levee work in Third District, improving Mississippi River. Capt. G. M. Hoffman, Corps Engrs., U. S. A.

BREAKWATER SUPERSTRUCTURE. —Buffalo, N. Y.—Bids are asked until 11 a. m., May 18, by Col. H. M. Adams, Corps. Engrs., U. S. A., Buffalo, for constructing stone-concrete superstructure on the Buffalo Breakwater. (Advertised, Engineering News.)

SUBWAYS.—Washington, D. C.—Specifications and bidding sheet for constructing two subways to connect the Capitol Building with Senate and House office buildings, as advertised in Engineering News, are on file at the office of Engineering News, New York. Bids are asked until May 15.

CAPSTANS. — Charleston, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded to the HYDE WINDLASS CO., Bath, Me., contract for furnishing seven electric capstans at the dry dock, Charleston Navy Yard, at their bid of $12,890.

DREDGING.—Hawaii.—We are advised by Capt. Curtis W. Otwell, Corps Engrs, U. S. A., Honolulu, that bids will be opened on or about June 15 for dredging in Honolulu Harbor, $200,000 having been appropriated, and $200,000 additional authorized by the River and Harbor Bill.

TUG.—Washington, D. C.—The Revenue Cutter Service, Treasury Dept., Washington, has awarded to the PUSEY & JONES CO., Wilmington, Del., contract for constructing Revenue Cutter No. 16, an ocean-going tug for the North Pacific Ocean, at $189,057, delivered at their works.

PNEUMATIC TUBES.—Philadelphia, Pa.—Bids are asked until May 1, by the Batcheller Pneumatic Tube Co., 1038 Ridge Ave., Philadelphia, for laying about seven miles of 8-in. pneumatic tubes and three miles of electric conduits, in the city of Philadelphia. B. C. Batcheller is Ch. Engr.

STEEL.—Belle Fourche, S. Dak.—Specifications and bidding sheet for supplying 350,000 lbs. of steel for the Belle Fourche project, S. Dak., U. S. Reclamation Service, as advertised in Engineering News, are on file at the office of Engineering News, New York. Bids are asked until April 30.

CRIB AND RIP-RAP.—Cincinnati, Ohio.—The following bids were received by Maj. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, April 5, for constructing crib work and rip-rap protection at Lock No. 1, Big Sandy River, Catlettsburg, Ky., as advertised in Engineering News: Kinner & Co., Catlettsburg ,Ky., $20,254; P. C. Turner, Ona, W. Va., $24,691; McKay & Runyon, Catlettsburg, $18,440; Lewis H. Wendt & Co., Newport, Ky., $28,060.

LIGHT-HOUSE SUPPLIES.—Tompkinsville, N. Y.—Bids are asked until 1 p. m., May 21, by Maj. Charles L. Potter, U. S. A., Engr., Third Light-House District, for furnishing miscellaneous articles for the Light-House Establishment for the fiscal year ending June 30, 1908. (Advertised, Engineering News.)

DRAINAGE TUNNEL. — Cripple Creek, Colo.—Bids are asked until May 15 for driving about 15,000 ft. of deep drainage tunnel in the Cripple Creek mining district, Colo. E. D. Marr, Secy., Colorado Springs. (Advertised, Engineering News on March 28.) Specifications are on file at office of Engineering News, New York.

PIER SUPERSTRUCTURE.—Harbor Beach, Mich.—Bids are asked until 2 p. m., May 27, by Col. Charles E. L. B. Davis, Corps Engrs., U. S. A., U. S. Engineer Office, Detroit, Mich., for removal of old superstructure and building concrete superstructure on main pier at Harbor of Refuge, Harbor Beach. (Advertised, Engineering News.)

VAULT CASES.—New York, N. Y.—The Supervising Architect of the Treasury, Washington, D. C., has awarded as follows contracts for furnishing steel vault cases at the custom house, New York: GENERAL FIREPROOFING CO., Youngstown, Ohio, item 1, $44,700; item 2, $10,300. VAN DORN IRON WORKS, Cleveland, Ohio, item 3, $18,600.

SUBWAY.—New York, N. Y.—The Rapid Transit Commission, on April 18, awarded to the DEGNON CONTRACTING CO., 60 Wall St., the contract for construction of the section between Pearl and Canal Sts. of the Centre St. bridge subway loop. The company offered to build the section for $2,952,000 and to build the pipe galleries for an additional $83,000.

SAULT STE. MARIE, ONT.—The FORTER-MILLER ENGINEERING CO., Pittsburg, has been awarded a contract to reline the two blast furnaces of the Algoma Steel Co., Sault Ste Marie. These furnaces each have a capacity of 200 tons daily. The contract for the fire brick has been given to the HARBISON-WALKER REFRACTORIES CO., Farmers Bank Bldg., Pittsburg.

BEAR-TRAP GATES.—Wheeling, W. Va.—The lowest bid received April 15 for furnishing and delivering structural steel, iron and steel castings, etc., for bear-trap gates for Dam No. 18, Ohio River, as advertised in Engineering News, March 21, was that of the Sterrit-Thomas Foundry Co., 32d and Smallman Sts., Pittsburg, Pa., at $6,616. Capt. F. C. Boggs, Corps Engrs., U. S. A.

CABLE-WAY.—Joliet, Ill.—The MACOMBER & WHYTE ROPE CO., 19 South Canal St., Chicago, has closed a contract with the Illinois State Penitentiary at Joliet, for a large cable-way, to be erected at the state's quarry at Joliet. Cost, about $10,000, and includes the complete equipment, comprising steel towers, machinery, rope, etc. The engine is to be a special cable-way engine of 75 HP., and will be driven and controlled by a 75 HP. general electric motor.

LOCOMOTIVE JIB CRANE.—Charleston, S. C.—Bids were received on April 20 as follows for locomotive jib crane at Charleston Navy Yard, for Bureau of Yards and Docks, Navy Dept.: Brown Hoisting Machinery Co., 26 Cortlandt St., New York, (Item 1), $6,750, and (Item 2), $8,400. Browning Engineering Co., Stop 118, Shore Line, Cleveland, Ohio, (Item 2), $6,200 and $7,300. Dodge Coal Storage Co. (Nicetown), Philadelphia, (Item 2), $6,475 and $7,676.

FORGINGS.—Washington, D. C.—Bids were opened April 10, at the office of the Ordnance Bureau of the Navy Dept., Washington, D. C., for furnishing nickel steel gun forgings as follows: Crucible Steel Co. of America, Pittsburg, Pa., three sets 6-in. 50-calibre, Mark VIII., forgings, 29½ cts. per lb.; Midvale Steel Co., Philadelphia, 28 sets, 12-in. 45-calibre, Mark V.; thre sets seven-in. 45-calibre, Mark II.; three sets, six-in. 50-calibre, Mark VIII.; 28 sets, five-in. 50-calibre, Mark VI., at 30 cts. per lb.; Bethlehem Steel Co., South Bethlehem, Pa., made the same bid both as regards price and delivery, and the three bidders.

LOCOMOTIVE JIB CRANE.—Philadelphia, Pa.—Bids were received on April 20 for furnishing a locomotive jib crane for the League Island Navy Yard. H. H. Rousseau, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C. The bidders were: Dodge Coal Storage Co. (Nicetown), Philadelphia. (Item 2), $6,400 and $7,576. North Penn Iron Co., Third and Venango Sts., Philadelphia, (Item 2), $5,200 and $5,500. Browning Engineering Co., Stop 118, Shore Line, Cleveland, Ohio, (Item 2), $6,200 and $7,300. Brown Hoisting Machinery Co., 26 Cortlandt St., New York, (Item 1), $6,656; (Item 2), $8,315.

SUBWAY.—New York, N. Y.—Bids are asked by the Board of Rapid Transit Commissioners, 320 Broadway, until noon, May 14, for building the section known as Route No. 9, in Centre St. (Manhattan) and other streets in the Boroughs of Manhattan and Brooklyn, including ultimately Delancey St., Grand St., Desbrosses St., Canal St. and William St., in Manhattan, and Fulton St., Lafayette Ave. and Broadway, in Brooklyn. Bids are now asked to construct that part which is situated in Centre St., between Canal St. and Broome St. The general plan of construction calls for a sub-surface railroad. There will be four tracks in Centre St. and provisions for a spur turning west into Grand St. Bion L. Burrows, Secy.

DAM.—Osceola, Mo.—City plans to build a dam across the Osage River at an estimated cost of $25,000. Bonds have not been voted yet. Charles A. Mitchell is Secy., Commercial Club. The project includes the development of water power for industrial purposes. The town of Osceola, it is proposed, shall issue $9,500 in bonds for the enterprise. This is the present bond limit of Osceola. The Standard Development Co., that owns and controls Monegaw Springs, has also promised to contribute to the cost of the dam. It is believed the dam will make the Osage River navigable as far as Taberville, 20 miles above Osceola. Monegaw Springs is 18 miles up the Osage River from Osceola. Alderman Baylis Steele, of Osceola, is the Pres. of the company.

CEMENT.—Montrose, Colo.—We are officially advised that the following bids were received by the U. S. Reclamation Service, for furnishing 30,000 bbls. of Portland cement, f. o. b. cars at manufacturer's shipping point, as advertised in Engineering News, March 21: (a) place of delivery, (b) price per bbl., (c) freight rate per cwt., (d) total cost delivered on Uncompahgre project per bbl.: The Portland Cement Co., Colorado Bldg., Denver, Colo., (a) Portland, Colo., (b) $2.05, (c) 25 cts., (d) $3; McPhee & McGinnity Co., 18th and Wazee Sts., Denver, Colo., (a) Iola, Kan., (b) $1.73, (c) 35.4 cts., (d) $3.075; Western States Portland Cement Co., Independence, Kan., (a) Independence, Kan., (b) $1.80, (c) 36.3 cts., (d) $3.179; Universal Portland Cement Co., Rookery Bldg., Chicago, Ill., (a) Chicago, Ill., (b) $1.50, (c) 46.4 cts., (d) $3.263. J. R. Garfield, Secy. Dept. Interior.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

ROADS, GRADING.—Hawaii.—Bids are asked by Capt. E. H. Humphrey, Constructing Q. M., Honolulu, until 10 a. m., May 15, for construction of roads, sidewalks and grading at the new post at Kahauiki.

DREDGING.—Hawaii.—We are advised by Capt. Curtis W. Otwell, Corps Engrs., U. S. A., that bids will be opened on or about June 15 for dredging in Honolulu Harbor, $200,000 having been appropriated, and $200,000 additional having been authorized by the River and Harbor Bill.

RESERVOIR, PUMPING STATION. — Hawaii.—Bids are asked at the office of the Depot Quartermaster, 1086 North Point St., San Francisco, Cal., until May 3, for the construction, plumbing, electric wiring, etc., of a pumping station, and for the construction of a 300,000-gal. reservoir at the new military post, Kahauiki, Honolulu, Hawaii. Lieut.-Col. J. B. Bellinger, Depot Quartermaster, U. S. A.

EXPLOSIVES.—Panama.—Bids were opened April 19, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for 817,000 lbs. dynamite, 45% nitro-glycerine, and 350,000 lbs. dynamite, 60% nitro-glycerine, as follows: Rockdale Powder Co., York, Pa., $95,375, on 700,000 lbs. only; 95 days. National Powder Co., 353 Fifth Ave., New York, $139,162; 120 days. E. I. DU PONT DE NEMOURS POWDER CO., 90 West St., New York (awarded contract), $127,376; 67 days.

CEMENT.—Panama.—Bids were opened, April 19, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing 15,000 bbls. of Portland cement, f. o. b. Colon. Bids were: American Trading Co., 25 Broad St., New York, $31,687, $31,987; 120 days. Wm. Wirt Clark & Sons 546 Monument St., Baltimore, $43,500; 90 days. Stauffer, Eshleman & Co., New Orleans, $33,750; 90 days. Vulcanite Portland Cement Co., New York, $34,500; 30 days. Wouldham Cement Co., 32 Broadway, New York, $32,925; May shipment. ATLAS PORTLAND CEMENT CO., New York (awarded contract), $31,425; 60 days.

LOCOMOTIVE CRANES.—Panama.—Bids are asked until 10.30 a. m., May 7, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing under Circular No. 362, four locomotive cranes of 25-ton capacity. These cranes are to have a maximum radius of 30 ft. and a minimum radius of not more than 14 ft.; a capacity of 25 tons at 14-ft. radius. It is expected that bidders furnish information regarding various capacities at various radii up to and including the maximum of [illegible] and must state maximum clearance between hook and top of rail at maximum radius. The total weight of the cranes in working condition without fuel or water to be approximately 60 tons. Bidders should furnish a list and schedule of prices of all spare parts of these cranes in order that they may be supplied as needed.

ENGINEERING SUPPLIES.—Panama.—Requisitions have been received by the Isthmian Canal Commission, Washington, D. C., for a large quantity of engineering supplies, as follows: 33 portable pneumatic drills, nine wood-boring machines, 33 long stroke pneumatic riveting hammers, 33 chipping and calking hammers, with full sets of spare parts; six pneumatic geared hoists, ranging from one to [illegible] tons capacity; 79-in. driving wheel lathe; 26-in. × 44-in. × 14 ft. double spindle engine lathe; 36-in. × 18-ft. engine lathe; [illegible] × 12-ft., 18-in. × 8 ft. and 14-in. × 6 [illegible] screw cutting engine lathes; 14-in. tool room engine lathe; 18-in. × 6-ft. cabinet turret brass lathe; 3-in. × 3-ft. turret lathe; 48-in. × 16-ft. planer for planing metals; 10-ft. × 16-ft. vertical boring and turning mill; 5-ft. and 6-ft. radial drill; one counter-sinking radial drill; one horizontal boring and drilling machine; two 34-in. sliding head drill presses; two 23-in. stationary head drill presses; 23-in. sliding head drill presses; three portable cylinder boring machines; one No. 3 Universal milling machine; one No. 3 plain milling machine; one hand milling machine; 32-in. pillar crank shaper; 15-in. crank slotter; 3-in. single head bolt cutter; 12-in. pipe cutting and threading machine; two portable cylinder facing machines; one steam pump, 12-in. steam cylinder, 12-in. stroke. Specifications for this material are being prepared and will be published as Circular No. 363 in a few days.

CONTRACT PRICES.

[Where (*) precedes items under Contract Prices the work was advertised in Engineering News.]

*CANAL.—PORTLAND, ORE. One bid was received by the U. S. Reclamation Service on April 15 for excavating the Keno Canal, near Klamath Falls, Klamath Project, Oregon-California. It was submitted by Paquot, Gieblisch & Joplin, Labbe Bldg., Portland, as follows: Excavation, Class One, 47,150 cu. yds. at 75 cts. a cu. yd. $35,362; excavation, Class Two, 16,620 cu. yds. at 85 cts., $14,127; excavation, Class Three, 13,340 cu. yds. at $1, $13,340. Total, $62,829. The bid was conditional upon this firm being awarded all four schedules or none.

ALBANY, N. Y.—The following bids were received April 15 by the Board of Contract and Supply, for grading and paving Western Ave., from present terminus of pavement to city line; (A) Vulcan Engineering Co.; (B) Robert Shafer; (C) Mulderry Bros. The bidders are all of Albany. Walter Melius is City Engr. Itemized bids were as follows:

	(A)	(B)	(C)
30,800 cu. yds. excavating and trenching	$0.44½	$0.42	$0.47
20,000 cu. yds. broken stone macadam	1.29½	1.25	1.28
or			
20,000 cu. yds. gravel macadam	1.14½	1.00	1.16
100 cu. yds. concrete	9.00	9.50	8.00
80 lin. ft. 8″ pipe	.80	.75	.90
70 lin. ft. 12″ pipe	1.00	1.00	1.40
230 lin. ft. 6′ pipe	.70	.65	.75
1,400 lbs. steel reinforcement	.05	.06	.05
Days to complete; $5 per day	155.00	140.00	120.00
Total	$41,646	$39,949	$41,88

(Supplementary Proposal.)

	(A)	(B)	(C)	(D)
22,300 cu. yds. excavating and trenching	$0.44½	$0.42	$0.47	$0.40
13,900 cu. yds. broken stone	1.39½	2.10	1.31	1.30
2,200 cu. yds. gravel	2.60	2.00	2.48	2.00
100 cu. yds. concrete	9.00	9.50	9.50	9.00
360 cu. yds. concrete in cribs	10.00	9.50	13.00	11.00
80 lin. ft. 8″ pipe	.80	.75	.90	1.00
70 lin. ft. 12″ pipe	1.00	1.00	1.40	1.25
230 lin. ft. 6′ pipe	.70	.65	.75	.80
1,400 lbs. steel reinforcement	.05	.06	.05	.07
Days to complete; $5 per day	125.00	140.00	120.00	100.00
Total	$40,524	$48,389	$40,788	$37,199

DREDGING.—New Orleans, La.—Bids were received, as follows, by the Sewerage and Water Board on March 27 for the construction of the Algiers outfall drainage canal. Work will consist of approximately 360,000 cu. yds. of excavation, the construction of a concrete by-pass at Drainage Pumping Station No. 8, and a trestle over the canal on the line of the New Orleans, Fort Jackson & Grand Isle R. R.; all to be let in one contract. George G. Earl, Gen. Supt., 602 Carondelet st.; (A) The Gulf Dredging & Timber Co., Ltd., 806 Gravier St., New Orleans; (B) Frank W. Lahusen; (C) Home Dredging Co.; (D) WILLIAM MOORE (awarded contract); (E) Benj. W. Borne; (F) St. Mary Dredging & Improvement Co., Ltd.:

	(A)	(B)	(C)	(D)	(E)	(F)
360,000 cu. yds. excavation from canal	$0.1649	$0.16	$0.25	$0.1475	$0.16[illegible]	$0.1724
Construction of trestle:						
1,400 cu. yds. excavation from by-pass	1.00	1.25	1.50	.60	.50	1.25
500 cu. yds. back-filling around by-pass	1.25	.50	.80	.40	.30	1.10
30,000 ft. B. M. sheet piling, driven.	60.00	45.00	120.00	58.50	45.00	60.00
20,000 ft. B. M. capping and decking, in place	55.00	45.00	53.00	40.00	50.00	48.00
300 cu. yds. concrete in walls and bottom	20.00	12.00	18.00	15.00	14.00	16.15
100 cu. yds. concrete in cover	22.00	14.00	16.00	15.00	10.00	18.20
250 sq. yds. surfacing	.50	1.00	1.50	.40	1.10	.50
6,000 lin. ft. yellow pine piling, driven	.30	.35	.35	.235	.50	.38
30,000 lbs. corrugated steel rods	.065	.04	.04	.04	.05	.041
	$79,314	$72,200	$111,835	$66,280	$74,447	$79,924

SEA-WALL, GRADING, ETC.—Boston, Mass.—Bids w[illegible] received as follows by the Metropolitan [illegible]rk Commission, John R. Rablin, Engr., [illegible] Beacon St., on April 15, for building [illegible]wall, grading and surfacing at Lynn Sh[illegible] Reservation, Nahant Beach Parkway to [illegible] Rock, Lynn, contract for which has b[illegible] awarded to the second lowest bidders, [illegible]LEMAN BROS., 15 Court Sq., Boston. [illegible] bidders were: (A) McHale & Per[illegible] Jamaica Plain, Mass.; (B) George M. [illegible]ne Co., Boston, Mass.; (C) Hugh Nawn C[illegible]racting Co., Roxbury, Mass.; (D) D. F. O'[illegible]nell, Dorchester, Mass.; (E) Rowe & Pe[illegible] Melrose, Mass.; (F) Jones & Meehan, B[illegible]on; (G) T. Stuart & Son Co., Newton, Ma[illegible]; (H) Daniel J. Kiley, Boston; (I) M. McD[illegible]ugh, Swampscott, Mass.; (J) Coleman Br[illegible] Boston; (K) Richmond F. Hudson, Me[illegible]e, Mass.

		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(I)	(J)	(K)
6,000 sq.	granolithic walk	$2.05	$2.00	$1.80	$1.60	$1.50	$1.80	$1.50	$1.25	$1.25	$1.30	$1.25
2,850 sq. y	gravel walk surfacing	.80	.50	.30	.45	.30	.40	.20	.30	.30	.30	.30
15,000 sq. y	broken stone roadway surfacing	.75	.70	.80	.60	.70	.50	.55	.50	.38	.40	.50
8,000 cu. y	loam furnished by contractor	2.25	1.50	1.50	1.25	1.40	1.00	1.60	1.32	1.10	1.30	1.40
5,000 cu. yds.	loam surfacing	.55	.40	.50	.35	.30	.50	.40	.45	.20	.30	.40
330 lin. f	curved edgestone	1.80	1.20	1.50	1.50	1.30	1.60	1.35	1.75	1.50	1.50	1.40
450 lin.	straight edgestone	1.20	.80	1.00	1.25	1.00	1.20	1.10	1.10	1.00	1.25	1.00
32 concr	catch-basins	40.00	60.00	35.00	35.00	36.00	50.00	30.00	45.00	35.00	30.00	30.00
1,000 sq. yds.	concrete gutters	2.25	1.60	1.90	2.00	1.25	1.80	1.50	1.36	1.50	1.40	1.25
700 lin. ft.	concrete edgestone	1.00	1.00	1.25	.55	1.25	.50	.90	1.03	.70	.60	.60
1,200 lin. ft.	concrete steps	.65	.75	.80	.75	3.00	.40	.90	1.40	.70	.60	1.25
1,850 lin. f	artificial stone coping	4.00	3.50	3.75	3.00	3.00	2.00	3.25	2.50	2.00	2.20	2.25
2,000 sq. yds.	water-proofing	.15	.60	.50	.30	.40	.50	.35	.40	1.00	.75	.20
21,000 sq. ft.	face pointed	.12	.12	.10	.15	.10	.10	.10	.07	.20	.10	.10
5,000 cu. yds.	concrete masonry	7.50	8.00	8.00	8.50	7.00	7.00	6.85	6.60	7.00	7.00	6.50
6 stone	drain outlets	40.00	100.00	50.00	50.00	25.00	10.00	18.00	16.50	25.00	20.00	25.00
180 lin. ft.	15″ vitrified pipe	.85	1.00	.75	.70	.70	.80	.75	.55	1.00	1.00	.75
680 lin. ft.	12″ vitrified pipe	.60	.75	.65	.50	.40	.60	.50	.50	.60	.60	.50
770 lin. ft.	10″ vitrified pipe	.45	.50	.50	.40	.40	.50	.40	.41	.50	.50	.40
2,630 lin. ft.	8″ vitrified pipe	.35	.80	.50	.30	.40	.40	.30	.40	.40	.40	.30
5,000 cu. yds.	filling material	.75	1.00	.80	.85	.65	.80	.50	1.00	.50	.50	.65
21,000 cu. yds.	earth grading	.47	.60	.60	.60	.33	.40	.35	.45	.50	.40	.40
Totals		$117,482	$116,335	$114,309	$108,808	$97,099	$93,677	$93,223	$92,005	$89,725	$87,667	$87,381

FOREIGN CONTRACTS.

RAILWAY.—Belgium.—Bids are asked by the "Société national des chemins de fer vicinaux," until May 1, Rue de la Science, Brussels, for the construction of the section from Arlon to Nobressart of the local railway from Arlon to Martelange. The estimated cost of the work is 365,124 frs. ($73,025), and a deposit of 36,000 frs. ($7,200) is required to qualify any bid. Bids by registered letter will be received at the address mentioned above not later than April 30. A copy of the specification may be obtained on payment of 1 fr. from M. Alliaume, rue de Luxembourg, 80, Arlon.

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CIVIL SERVICE EXAMINATIONS.

ASSISTANT PHYSIOLOGIST. — Washington, D. C.—An examination will be held by the U. S. Civil Service Commission on May 15 to secure eligibles from which to make certification to fill a vacancy in the position of Assistant Physiologist (male) at $1,600 a year, in the Bureau of Plant Industry, Dept. of Agriculture, and vacancies as they may occur requiring similar qualifications. Men only will be admitted to this examination. Age limit, 20 years or over. Application Form No. 304 and special form.

PLANT PATHOLOGIST.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 15 to secure eligibles to fill a vacancy in the position of Plant Pathologist (male) in the Bureau of Plant Industry, Dept. of Agriculture, at $1,200 a year, and vacancies as they may occur in that department requiring similar qualifications. Men only will be admitted to this examination. The subjects will include a thesis of not less than 1,000 words on the methods used in the control of cereal rusts. The person appointed will be placed in charge of field work in the spring wheat belt of Minnesota, North Dakota and South Dakota. He must be familiar with the cereals of that region and must have some knowledge of the rusts and smuts with which he will be expected to work. He should be well equipped in advanced lines of cytology, histology and mycology. These facts must be stated in the application. Age limit, 20 years or over. Application Form No. 304 and special form.

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INDUSTRIAL NOTES.

THE LACKAWANNA STEEL CO. announces the removal of its offices to the 18th floor of the United States Express Co. Building, 2 Rector St., New York.

MR. E. W. DE KNIGHT, Gen. Mgr. of The Hydrex Felt & Engineering Co., 120 Liberty St., New York City, is at present in Europe on a combined business and pleasure trip.

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TRADE PUBLICATIONS.

ROAD ROLLERS.—Monarch Road Roller Co., Groton, N. Y. Paper; 9 × 6 ins.; pp. 18; illustrated.

The Monarch road roller is described, but no sizes, weights or prices given.

ELECTRIC LIGHT CLUSTERS.—Benjamin Electric Mfg. Co., Chicago, Ill. Catalogue B-17A. Paper; 6¼ × 3½ ins.; pp. 64; illustrated.

Benjamin wireless clusters and lighting specialties are described. Prices for parts and complete clusters are given.

AUTOMATIC SIPHONS.—De La Hunt Flush Tank Co., Cedar Rapids, Iowa. Paper; 5½ × 8 ins.; pp. 20; illustrated.

The [illegible] of the De La Hunt siphon is described, and the reasons why siphons fail to act automatically discussed. A description of the siphon and directions for installing it are also given.

TRACK TOOLS AND APPLIANCES.—Cook's Railway Appliance Co., Kalamazoo, Mich. Two pamphlets. Paper; 6 × 9 ins.; 12 pp., and 9 × 6 ins., 11 pp.; illustrated.

The first of these is devoted to a track drill with vertical stand and operated by crank handles. The second describes cattle guards with steel and wooden slats.

RAILWAY COACH WHEELS. — Railway Steel Spring Co., 71 Broadway, New York City. Paper; 6 × 9 ins.; pp. 47; illustrated.

Steel tired wheels for coaches, engine trucks and engine tenders are illustrated and briefly described. Many different styles are shown, and instructions for ordering given.

ELECTRIC BLUE PRINT MACHINES.—J. H. Wagenhorst & Co., Youngstown, O. Paper; 6 × 4 ins.; pp. 35; illustrated.

The Wagenhorst printer, which is a vertical machine, is described. The principal feature of the machine is the roller curtain, which does away with clamps or buttons for fastening the curtain over drawings.

CATTLE GUARDS.—The Climax Stock Guard Co., 703 Title and Trust Building, Chicago. Paper; 7 × 5 ins.; pp. 16; illustrated.

The Climax cattle guard is composed of clay blocks forming a series of V-shaped ridges and furrows, parallel with the rails. There is a list of steam and electric railways using this guard.

ELECTRIC SUPPLIES.—Manhattan Electrical Supply Co., 17 Park Pl., New York City. Catalogue No. 22. Paper; 4¼ × 8½ ins.; pp. 144; illustrated.

This is a condensed catalogue listing electricians' supplies, telegraph and telephone instruments and supplies, automobile and motor boat sundries, burglar and fire alarms, medical apparatus, electrical novelties, etc.

RAIL JOINTS.—The Rail Joint Co., 29 W. 34th St., New York, N. Y. Paper; 9¼ × 6 ins.; pp. 32; illustrated.

There is very little descriptive matter in this pamphlet, but the illustrations show the Continuous, Weber, and Wolhaupter joints as adapted to steam and street railway rails. Insulated joints and step joints for connecting rails of different sections are also shown.

ELECTRIC GENERATING SETS.—B. F. Sturtevant Co., Hyde Park, Mass. Bulletin 143. Paper; 6½ × 9 ins.; illustrated.

This bulletin is devoted to generating sets consisting of electric generators direct connected to horizontal steam engines. These sets are made in sizes ranging from 20-KW. to 150-KW. General dimensions, weights, etc., are given.

MINE CAGES AND CARS.—The Wellman-Seaver-Morgan Co., Cleveland, O. Circular No. C A-3. Paper; 6 × 9 ins.; pp. 40; illustrated.

Light steel safety mining cages, safety automatic dumping cages, self-dumping ore, coal, and water buckets, revolving tipplers, dumping mine cars, steel skip cars, etc., are described. The principal dimensions and capacities of the different apparatus is noted.

DRILLING OUTFITS.—Cyclone Drill Co., Orrville, O. Paper; 6 × 9 ins.; pp. 60; illustrated.

Cyclone blast hole drillers, core drillers, hollow rod, core and cable tools, water tanks, gasoline and steam engines, boilers, drilling and fishing tools, etc., are listed and fully described. The drilling of blast holes, their cost and the best methods of caring for drilling apparatus is discussed at some length.

DRAWING MATERIALS.—Keuffel & Esser Co., New York City. Three circulars. 5½ × 8½ ins.; illustrated.

The K. & E. automatic print hanger is described in one of the circulars. Sizes and prices are given.

Sperry's pocket calculator is a watch type of slide rule. It is listed in another of the circulars.

Folding rules are described in the third circular, rules of wood and steel from one foot to eight feet in length being listed.

RECORDING TRACK SCALES.—Streeter-Amet Weighing & Recording Co., Hartford Building, Chicago. Paper; 8¾ × 11 ins.; pp. 4; illustrated.

This pamphlet describes an automatic weighing and recording attachment for platform or track scales on which cars can be weighed while in motion, either singly or coupled together. There is a list of some 60 railways using it, and a number of testimonials are given.

JACKS.—The Duff Mfg. Co., Pittsburg, Pa. Paper; 5¾ × 8¾ ins.; pp. 80; illustrated.

This describes the various types of Barrett trip and lowering jacks for track and ballasting work, car and wrecking work, for automobile and for general work. Also the Duff roller-bearing screw jacks for bridge and yard work, and various specialties. A horizontal jack for forcing pipe horizontally through the ground is one of the various special forms of jacks.

TIE-PLATES AND TRACK DEVICES.—The Railroad Supply Co., Bedford Building, Chicago. Paper; three pamphlets; 6 × 9 ins.; pp. 20, 16 and 12.

The largest of these pamphlets is devoted to metal tie-plates, and shows a number of forms manufactured by this company. The second is descriptive of a derailing block for yard and industry tracks, being automatically placed upon the rail when the switch is set for the main track. The third pamphlet describes the Stanford lumping post, which has the striking block carried by a pair of timbers forming an A-frame, which stands at an angle of 45° with the horizontal.

CONCRETE FORM SEPARATOR.—The New York Purchasing Agency, 76 Pine St., New York City. Paper; 4 × 9¼ ins.; pp. 8; illustrated.

The form separator described in this pamphlet is a cement mortar pipe in 4 and 6-in. sections, through which the clamping bolts for the forms are to run and which itself acts as a strut to keep the forms apart. It has the advantage over the iron pipe ordinarily so used that it does not discolor the face of the concrete by rust.

ELECTRICAL APPARATUS.—General Electric Co., Schenectady, N. Y. Eight bulletins. Paper; 8 × 10½ ins.; illustrated.

One of the publications is an index to the bulletins; dated January, 1907.

Bulletin No. 4485 describes portable gasoline engine and generator outfits, for such purposes as temporary power or light, thawing frozen water pipes, etc.

Bulletin No. 4487 is devoted to the description of continuous current switchboards for small plants. These boards are made in sizes ranging from 1 to 40-KW. capacity, and for voltages of 125 and 250 volts. Dimensions, arrangements and size of instruments are noted.

The Thomson recording watt-meters, type C-6, are described in bulletin No. 4488, which supersedes bulletin No. 4415. Sizes, capacities and voltages of meters are given together with diagrams showing proper connections.

Bulletin No. 4489 lists electric crane wiring supplies, such as turnbuckles, trolley wheels, insulator supports, trolley wire supports, etc.

Portable motor driven air compressor sets are described in bulletin No. 4490. These sets are designed for 125, 250 or 550 volt circuits, and have a capacity of 24 cu. ft. of air per minute.

Bulletin No. 4491 supersedes bulletin No. 4369, and describes controllers for power and mining service. The proper controller to be used for any particular service is discussed, and the principal dimensions of all different types given.

Bulletin No. 4492 describes small alternating current switch boards for 1,150 and 2,300 volts. These boards are made for controlling single generating units of 125 and 250-KW. capacity. The apparatus mounted on the boards is noted and a wiring diagram given.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 158.

IMPROVEMENTS TO WATER SUPPLY.

(CHANGE OF DATE.)

McKeesport, Pa.

Sealed proposals will be received by the City Controller of McKeesport, Pa., until Tuesday, April 30th, 1907, at Two (2) P. M., Eastern time, and publicly opened immediately thereafter, for the construction of certain improvements to the Water Supply as follows:

A—The laying of certain 8-inch, 12-inch, 20-inch, 24-inch and 30-inch Mains, including a new intake line.

B—A mechanical filtration plant and building of 6,000,000 gallons daily capacity.

C—A water softening plant and building of 10,000,000 gallons daily capacity.

D—A Chemical Storage Building.

E—One (1) 400h.-p. Boiler.

F—Two (2) 7,000,000 low lift Centrifugal pumping Engines, Five (5) smaller pumps, Two (2) Water Motors.

G—Elevator.

Bids shall be received in whole or in part for the work contemplated. Certified checks made payable to the Treasurer of the City of McKeesport, or bond, will accompany each proposal as follows:

Section A—$500.00.
Section B—$3,000.00.
Section C—$4,000.00.
Section D—$500.00.
Section E—$1,000.00.
Section F—$500.00.
Section G—$250.00.

Specifications and plans can be seen at the office of T. H. Verner, Superintendent of the Water-Works, McKeesport, Pa., and at the office of the Engineer, Alexander Potter, 143 Liberty St., New York City.

Bidders desiring copies of the Filtration and Softening Plants can secure them on payment of $15.00 for the Filtration and $25.00 for the softening plant plans. Complete specifications for $2.00 per copy.

The right is retained to reject any and all bids or to accept that one which in the opinion of the Commission is for the best interest of the City.

In canvassing bids on this work, the Board of Water and Lighting Commissioners will take into consideration the time in which the contractor agrees to complete the various sections of the work on which he presents proposal.

By order of the Board of Water and Lighting Commissioners.

C. E. SOLES, Controller.
J. B. AYRES, Chairman;
WILLIAM EVANS,
GEORGE B. HERWICK.
Board of Water and Lighting Commissioners.
ALEXANDER POTTER, Ch. Engr.
D. S. TOBIN, Secretary. 17-1t

ASPHALT PAVING.

Parkersburg, W. Va.

Sealed proposals will be received by the Board of Affairs of the City of Parkersburg, W. Va., until 8 P. M. (Thursday) May the 9th, 1907.

For the paving of Juliana Street from Ninth Street to Thirteenth Street with Sheet or Block Asphalt, with 5 or 10-year guarantee.

Also for combined curb and gutter of concrete, with steel bound concrete circular curbs, where shown on specifications.

Full information furnished upon application at the office of the City Engineer at Parkersburg, W. Va. A certified check for One Thousand Dollars, payable to the City of Parkersburg, must accompany each bid. The Board of Affairs reserves the right to reject any or all bids.

17-3t FRANK GOOD, Auditor.

WATER-WORKS.

Madill, Ind. Ter.

Sealed bids will be received by the Hon. Mayor and City Council, Madill, Indian Territory, and by them publicly opened on Tuesday, May 7, 1907, for the purchase by said city of all the pipe, hydrants, valves, tank and tower, boilers, feed water heater, duplex pump, boiler feed pumps, deep well pump, cement, sand, stone, brick and all other supplies needed for the construction of a complete water-works system. Specifications can be had by addressing O'Neil Engineering Company, Dallas, Texas.

M. GRIFFIN O'NEIL,
17-2t President.

PUMPING STATION.

Summit, N. J.

Sealed proposals will be received by the Common Council of the City of Summit from 8 P. M. to 8.30 P. M. on Tuesday, May 7th, 1907, and opened at the last-named hour, at a public meeting of the said Common Council, to be held at the said time at the City Hall, in the City of Summit:

For the construction of the Pumping Station Sewage Tank.

To be located on the property of City of Summit, situated near the pumping station near Chatham Road and the Passaic River.

The work consists in furnishing all material, tools and labor necessary for the proper and efficient completing of said work in accordance with the plans and specifications therefor on file in the office of the City Engineer.

The approximate quantity of work to be done is:

One reinforced concrete tank, size 70 feet by 70 feet, reinforcement to consist of expanded metal insides, floor and roof, and steel bars in floor beams, girders and columns.

50 cubic yards of extra earth excavation.

20 cubic yards of rock excavation, which is to include all rock encountered, bowlders of one-half cubic yard or bed rock.

25 cubic yards of extra concrete.

100 square feet of extra expanded metal, 3 in. No. 10 gage, plus 100 per cent. extra strand.

26 lineal feet of 15-inch pipe sewer, 5 feet deep, required to complete the trunk sewer.

Work to be completed September 1st, 1907.

Amount of bond, $5,000.

For further particulars see local papers, and inquire at City Engineer's office, Summit, N. J.

J. EDW. ROWE,
City Clerk.
W. S. LOGAN,
City Engineer.
ALEX. POTTER,
Consulting Engineer. 17-2t

SEWERS.

Boston, Mass.

Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 P. M. of Friday, May 17, 1907, for constructing in earth trench part of Section 82 of the Extension of the High Level Sewer, South Metropolitan System, in Park Street, Brookline, in accordance with the forms of contract and specifications to be furnished by the Board. Some particulars are estimated to be as follows: Length, 1785 feet; inside diameter of sewer, 75 inches by 78 inches; 700 cubic yards of Portland brick masonry in trench; 1300 cubic yards of concrete masonry in trench. The invert of the sewer is from 16 feet to 29 feet below the street surfaces. Plans can be seen and specifications and forms of contract can be obtained at the above office. Each bid must be accompanied by a certified check for two thousand dollars ($2,000), payable to the Commonwealth of Massachusetts, and a bond in the sum of fifteen thousand dollars ($15,000) will be required from the successful bidder. The Board reserves the right to reject any or all bids. HENRY H. SPRAGUE, HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. WILLIAM M. BROWN, Chief Engineer of Sewerage Works; WILLIAM N. DAVENPORT, Secretary. 17-1t

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MACADAMIZING AND CURBING.

Lexington, N. C.

Sealed proposals will be received by the Mayor and Board of Commissioners of Lexington, N. C., until 4 P. M., May 3d, 1907, for macadamizing streets.

Approximate quantities are:

6,000 cu. yds. excavation,
15,000 lin. ft. granite or cement curb,
13,000 lin. ft. vitrified brick or cement gutter,
38,000 sq. yds. macadam.

All proposals must be accompanied by a certified check for $1,000, payable to the Mayor.

The right is reserved to reject any and all bids.

Specifications, forms of proposals, etc., can be obtained from the Engineer after April 25th, 1907.

By order of the Mayor and Board of Commissioners.

Z. I. WALSER,
Town Clerk.
GILBERT C. WHITE, Engineer,
Durham, N. C. 17-2t

SEWERS.

Boston, Mass.

Sealed proposals will be received at the office of the Metropolitan Water and Sewerage Board, 1 Ashburton Place, Boston, Mass., until 2.30 P. M. of Friday, May 17, 1907, for constructing in earth trench part of Section 82 of the Extension of the High Level Sewer, South Metropolitan System, in Gorham Avenue, Greenough and Washington Streets, Brookline, in accordance with the forms of contract and specifications to be furnished by the Board. Some particulars are estimated to be as follows: Length, 1,680 feet of trench and 20 feet of tunnel; inside diameter of sewer, 78 inches by 84 inches; 650 cubic yards of Portland brick masonry in trench; 1,700 cubic yards of concrete masonry in trench and tunnel. The invert of the sewer is from 16 feet to 27 feet below the street surfaces. Plans can be seen and specifications and forms of contract can be obtained at the above office. Each bid must be accompanied by a certified check for two thousand dollars ($2,000), payable to the Commonwealth of Massachusetts, and a bond in the sum of fifteen thousand dollars ($15,000) will be required from the successful bidder. The Board reserves the right to reject any or all bids. HENRY H. SPRAGUE, HENRY P. WALCOTT, JAMES A. BAILEY, JR., Metropolitan Water and Sewerage Board. WILLIAM M. BROWN, Chief Engineer of Sewerage Works; WILLIAM N. DAVENPORT, Secretary. 17-1t

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PAVING.

Lorain, Ohio.

Sealed proposals will be received at the office of the Board of Public Service of the City of Lorain, Ohio, until 12 o'clock noon, Saturday, May 4th, 1907, for furnishing the necessary labor and material for paving:

Washington Street, from W. Erie Avenue to Lake Street; Bank Street from Washington Street to Oberlin Avenue.

Second Avenue, from Washington Street to Oberlin Avenue; Penfield Avenue, from Dexter Street to the south corporation line.

Bidders are required to bid on each street separately, and will be required to use the printed forms, which will be furnished upon application. Bids must be for either labor or material or for both, and if for both, each bid must be stated separately with price.

Each bid must contain the full name of every person or company interested in the same, and must be accompanied by a certified check on some local bank in the sum of $1,000.00 on Washington Street; $1,000.00 on Bank Street; $1,000.00 on Second Avenue, and $3,000.00 on Penfield Avenue, as a guarantee that if the bid is accepted, a contract will be entered into and its performance properly secured.

The right is reserved to reject any and all bids.

By order of the Board of Public Service.

17-2t G. N. DAMON, Clerk pro tem.

PAVING.

Bayonne, N. J.

Sealed proposals will be received and opened by the Council of the City of Bayonne at a meeting to be held at the City Hall, May 7th, 1907, at 8 P. M., for all of the labor and material required, about 6,700 sq. yds. of Telford Macadam, 5,640 sq. yds. of Brick Paving, 4,640 sq. yds. of Asphalt Paving.

All bids must be on the regular form provided for the purpose. Any further information can be obtained from the City Engineer.

The Council reserves the right to reject any or all bids.

W. C. HAMILTON,
City Clerk.
F. W. DALRYMPLE,
City Engineer. 17-2t

TRUNK SEWERS.

St. Joseph, Mich.

Notice is hereby given that the Board of Public Works will receive sealed proposals until 3 o'clock P. M., May 28, 1907, at the office of City Clerk of the City of St. Joseph, Mich., for the construction of trunk sewers.

Plans, profiles, specifications, etc., are on file in the city clerk's office.

Each bid must be accompanied by a certified check payable to the City Treasurer for 5% of the amount bid.

Board reserves right to reject any and all bids.

Estimated cost of sewers, $35,000.

HARRY L. MURPHY, City Clerk.
17-3t St. Joseph, Mich.

ADDITIONS TO SEWER SYSTEM.

Bronxville, N. Y.

Sealed proposals for their construction will be received until 8.30 P. M., Friday, May 3d, 1907. Plans and specifications may be obtained from the Clerk of the Village of Bronxville, or from Mr. George H. Rogers, the engineer in charge, at his office, No. 2543 Third Ave., New York City. A deposit of Ten Dollars will be required for plans and specifications, which will be returned upon the return of the said plans and specifications.

Proposals to be addressed: "SEWER PROPOSALS," Village Clerk of the Village of Bronxville, Bronxville, New York.

ELLIS W. GLADWIN, President.
JOHN S. BATES,
WM. P. H. BACON,
17-1t Trustees.

FILTER PLANT.

Burlington, N. J.

Sealed proposals will be received by the Board of Water Commissioners, at its office in the City of Burlington, New Jersey, until 3 P. M., Wednesday, June 5, 1907, for the construction of a Mechanical Filter Plant, of a capacity of Three Million Gallons per day of twenty-four hours.

Each bidder will be required to submit with his proposal plans and specifications of his proposed system, and of the material to be used in the construction and operation thereof.

The right is reserved to reject any or all bids.

The successful bidder will be required to furnish bond to the amount of one-half the amount of the contract price, for the faithful performance of the work.

All proposals to be endorsed, "Proposal for Filter Plant," and delivered to the undersigned, from whom any information regarding the same may be obtained.

GEORGE A. ALLINSON,
17-6t Superintendent.

PUMPING ENGINES.

Atlanta, Ga.

Builders of pumping engines are invited to appear before the Board of Water Commissioners on Saturday, May 4, at 3 o'clock P. M., to demonstrate what pumping engine they build that will do the duty required of them in the direct pumpage system, pressure varying from 120 to 160 pounds, daily capacity of 15 and 20 million gallons.

Builders of all types of pumping engines are invited to appear.

BOARD OF WATER COMMISSIONERS AND SPECIAL COMMITTEE OF CITY COUNCIL, Atlanta, Ga. 17-1t

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DEPARTMENT OF THE INTERIOR, UNITED STATES RECLAMATION SERVICE, Washington, D. C., April 20, 1907.—Sealed proposals will be received at the office of the United States Reclamation Service, Belle Fourche, South Dakota, until 4 o'clock P. M., May 28, 1907, for the construction of South Canal, Sections 2-6, and Structures, Sections 2-8, involving approximately 670,000 cubic yards of canal excavation, 7,200 cubic yards of concrete and 1,295 linear feet of tunnel, in connection with the Belle Fourche Project, South Dakota. Plans, specifications and proposal blanks may be obtained from the United States Reclamation Service, Washington, D. C., Crawford, Nebraska, or Belle Fourche, South Dakota. JAMES RUDOLPH GARFIELD, Secretary. 17-4t

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U. S. ENGINEER OFFICE, New London, Conn., April 22, 1907. Sealed proposals for dredging in Housatonic River, Conn., will be received here until 12 o'clock, noon, May 22, 1907, and then publicly opened. Information furnished on application. HARRY TAYLOR, Maj., Engrs. 17-4t

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SEALED PROPOSALS will be received at the office of the Light-House Engineer, Tompkinsville, N. Y., until 1 o'clock P. M., May 21, 1907, and then opened, for furnishing Miscellaneous Articles for the Light-House Establishment for the fiscal year ending June 30, 1908, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to MAJOR CHAS. L. POTTER, U. S. A., Engineer, Third Light-House District. 17-4t

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U. S. ENGINEER OFFICE, Boston, Mass., April 25, 1907.—Sealed proposals for dredging in Beverly Harbor, Mass., will be received here until 12 M., May 25, 1907, and then publicly opened. Information on application. EDW. BURR, Maj., Engrs. 17-4t

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U. S. ENGINEER OFFICE, Room 415, Custom House, Cincinnati, O., April 19, 1907.—Sealed proposals for constructing two dump scows will be received here until 2 P. M., standard time, May 15, 1907, and then publicly opened. Information furnished on application. J. G. WARREN, Maj., Engrs. 17-3t

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TREASURY DEPARTME Office of the
Supervising Architect, W gton, D. C.,
April 22, 1907.—Sealed pro s will be re-
ceived at this office until 3 k P. M., on
the 13th day of May, 1907, then opened,
for the new high-pressure boiler plant
and accessories for the U Court-House
and Post-Office building at delphia, Pa.,
in accordance with the dra and specifi-
cation, copies of which ma had at this
office or at the office of t Custodian, at
the discretion of the Supe g Architect.
JAMES KNOX TAYLOR, S ising Archi-
tect. 17-2t

ENGINEER OFFICE, U. Army, Wil-
mington, Del., April 13, 1 —Sealed pro-
posals for dredging Wil on Harbor,
Del., will be received here 11 o'clock
A. M., May 8, 1907. Infor n on appli-
cation. C. A. F. FLAGLE ajor, Engrs.
17-2t

U. S. ENGINEER OFFICE, falo, N. Y.,
April 18, 1907.—Sealed pro s for con-
struction of stone-concrete s tructure on
Buffalo breakwater will be ved at this
office until 11 A. M., May 1907, and
then opened. Information application.
H. M. ADAMS, Col., Corps of rs. 17-4t

U. S. ENGINEER OFFICE w London,
Conn., April 20, 1907.—Sealed oposals for
delivering riprap stone in kwaters at
New Haven, Conn., will be ved at this
office until 12 o'clock noon, y 21, 1907,
and then publicly opened. nation fur-
nished on application. HAR TAYLOR,
Maj., Engrs. 17-4t

Situations Wanted

AN ENGINEER of 8 years' experience wants position with a reinforced concrete company; if satisfactory might want to invest some capital. Address "F. B. 17," Engineering News, New York. 17-1t

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Situations Open

INSPECTORS WANTED.—Competent structural steel inspectors experienced in rail, mill and shop work. State salary and experience. Address "H. B. 17," Engineering News, New York. 17-1t

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WANTED.—Draftsmen and designers for work on steel construction and ordinary foundations. State experience, references and salary expected. INTERBOROUGH-METROPOLITAN CO., Room 2324, Park Row Building, New York City. 17-1t

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WANTED. — Water-works superintendent. Address WM. R. MARSHALL, Secy., Sioux Falls, S Dak. 17-1t

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BRIDGE SHOP SUPERINTENDENT.

WANTED.—Experienced man for structural, railing and stairwork shop near New York City. Apply, giving all particulars. Address "I. B. 17," Engineering News, New York. 17-1t

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A SMALL, but well established manufacturing company; value $75,000, divided 7 per cent. net profit $7,700, needs competent man to manage department and invest $10,000 to $25,000. Allows full investigation. Address "L. B. 17," Engineering News, New York. 17-1t

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Miscellaneous Wants

WANTED.—Contractor or construction company to build 75 miles of steam road in the eastern part of South Dakota. Estimated cost construction and equipment, $750,000; 25%, including rights of way, furnished by company; $600,000 in 6% 30-year bonds, to be accepted by contractor. Cost plus 15% basis. Splendid proposition. Address "M. B. 17," Engineering News, New York. 17-1t

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THE ENGINEERING NEWS PUBLISHING CO.